Ninety-fourth Commencement

May 19, 1991

Welcome to our 94th commencement.

This is a very special day for the members of the Class of 1991, their families and friends. We, the Carnegie Mellon University community, are proud to join you in congratulating the 1,900 undergraduate and graduate students receiving degrees today.

This year's graduation ceremonies have added significance. In addition to marking the culmination of today's graduates' hard work and dedication, we officially mark the start of a new era at Carnegie Mellon.

Today's ceremonies include the installation of Dr. Robert Mehrabian as our seventh president. Joining us are many of our alumni who were students here during the administration (1903-22) of our first president, Arthur A. Hamerschlag. These alumni have witnessed the evolution of Carnegie Mellon throughout this century, and it was Dr. Mehrabian's wish that they be honored and recognized during this commencement weekend.

We've assembled to celebrate the conferring of degrees to our students. To recognize the parents, spouses and others who supported our students during their academic careers here. To honor distinguished and treasured alumni. And to install our seventh president.

Thank you for being a part of our 94th commencement - a tribute to the people, the legacy and the traditions that are Carnegie Mellon University's foundation.

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Program

Procession

Please remain seated during the procession so that everyone may see the candidates. The procession will take approximately 20 minutes.

Music by The Carnegie Brass

Bernard V. Black (A'79), Dennis Colwell (A'79), J. David Knapp (A'81), Paul E. Lennarts (A'81), Matthew P. Litterini (A'85), Jeffrey Nicodemus (A'86), David Pieka (A'81), Glenn L. Wayland (A'79), Joseph K. Williams III (A'80)

Column A

Processing from the College of Fine Arts

The Carnegie Mellon Pipe Band

Industrial Management (Bachelor's Candidates)

Humanities and Social Sciences
(Bachelor's and Master's Candidates)

Graduate School of Industrial Administration
(Master's Candidates)

Column B

Processing from the College of Fine Arts

College of Fine Arts
(Bachelor's and Master's Candidates)

Column C

Processing from Warner Hall

School of Urban and Public Affairs
(Master's Candidates)

Processing from Baker Hall

Carnegie Institute of Technology
(Bachelor's Candidates)

Column D

Processing from Baker Hall/Hunt Library

All Doctor's Candidates

Mellon College of Science
(Bachelor's and Master's Candidates)

Carnegie Institute of Technology
(Master's Candidates)

School of Computer Science
(Master's Candidates)

Information Networking Institute
(Master's Candidates)

Manufacturing Engineering
(Master's Candidates)

Robotics Institute
(Master's Candidates)

Dignitaries

Processing from Skibo Hall

Faculty Marshal
Academic Department Heads
Faculty
Student Representatives
Vice Presidents
Alumni Award Winners
Education and Teaching Award Winners
Retiring Faculty
Trustees
Invocator
Deans
Provost
President
Chairman, Board of Trustees

Commencement Declaration

Barbara Anderson
Faculty Marshal

The National Anthem

Kristin Donahue (A'91) and The Carnegie Brass

Invocation

The Rev. Ruth Becker
Campus Pastor, Lutheran University Center

Please be seated following the invocation.

Welcome

Robert A. Charpie
Chairman, Board of Trustees
Carnegie Mellon University
Chairman, Ampersand Ventures
Former Chairman, The Cabot Corporation

Installation of Robert Mehrabian as Seventh President of Carnegie Mellon University

Robert A. Charpie

Announcements

Robert Mehrabian
President, Carnegie Mellon University

Alumni Speaker

Albert C. May (E'21, E'22)
Distinguished Alumnus

Conferring of Doctor's Degrees
Conferring of Master's Degrees

Robert Mehrabian
Angel G. Jordan
Provost

Senior Class Speakers

Matthew Ruben (HS'91)
Donna Grear (HS'91)

Conferring of Bachelor's Degrees

Robert Mehrabian and Angel G. Jordan

The President's Charge to the Graduates

Robert Mehrabian

The Alma Mater

Melinda Klump (A'91) and The Carnegie Brass

Please join in.

Here where spangled wildernesses
Robed the mountains of the west,
Where the savage strife and stresses
Brought the settlers' crimson quest;
Land of legend, glory, graces,
Gypsy tide and toiling shore,
'Mid thy hilltops, Alma Mater,
Stands enthroned for ever more
All Hail, Carnegie, Alma Mater
Stands enthroned for ever more.

Recession

Please rise and remain standing until recession is completed. Guests are asked to remain in their places until the graduates have left the tent.

Diploma Ceremonies

Families and friends are invited to attend the graduates' diploma ceremonies following the commencement program. See the map on p. 8 to locate the buildings listed below.

Carnegie Institute of Technology

- Biomedical Engineering
  TV and Rec Room, West Wing (10:30 a.m.)
- Chemical Engineering
  The Carnegie Lecture Hall
  4000 Forbes Avenue*
- Civil Engineering
  Gregg Hall (Porter Hall 100)
- Electrical and Computer Engineering
  Skibo Ballroom
- Engineering and Public Policy
  Wherrett Room, Skibo Hall (10:45 a.m.)
- Mechanical Engineering
  Gymnasium
- Metallurgical Engineering and Materials Science
  Winchester-Thurston School
  555 Morewood Avenue*

College of Fine Arts

- Architecture
  Synod Hall
  125 N. Craig Street*
- Art
  Hamerschlag Hall Patio Tent
- Design
  Margaret Morrison Rotunda
  (Rain location: Margaret Morrison 103)
- Drama
  College of Fine Arts Lobby
- Music
  College of Fine Arts Lobby

College of Humanities and Social Sciences

- Economics
  The Syria Mosque Auditorium
  4423 Bigelow Boulevard*
- English
  The Main Tent
- History
  Morewood Gardens Cafeteria
- Philosophy
  Hamburg Hall Auditorium
- Psychology
  Wherrett Room, Skibo Hall
- Social and Decision Sciences
  The Unitarian Church
  Corner of Morewood and Ellsworth Avenues*
- Statistics
  Baker Hall 132
- Student Defined Majors
  Adamson Wing Foyer, Baker Hall

Graduate School of Industrial Administration

The Carnegie Music Hall
4400 Forbes Avenue*

Industrial Management

The Syria Mosque Auditorium
4423 Bigelow Boulevard*

Mellon College of Science

- Biological Sciences
  Mellon Institute Auditorium
  4400 Fifth Avenue*
- Chemistry
  Mellon Institute Conference Room
  4400 Fifth Avenue*
- Mathematics
  Central Catholic High School
  4720 Fifth Avenue*
- Physics
  Wean Hall 7500

School of Urban and Public Affairs

Rodef Shalom Congregation
Corner of Fifth and Morewood Avenues*

Information Networking Institute

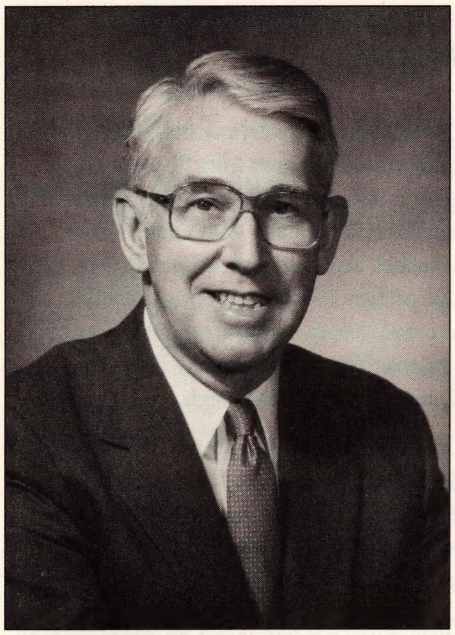
Pittsburgh Athletic Association (11 a.m.)

Navy Commissioning Ceremony

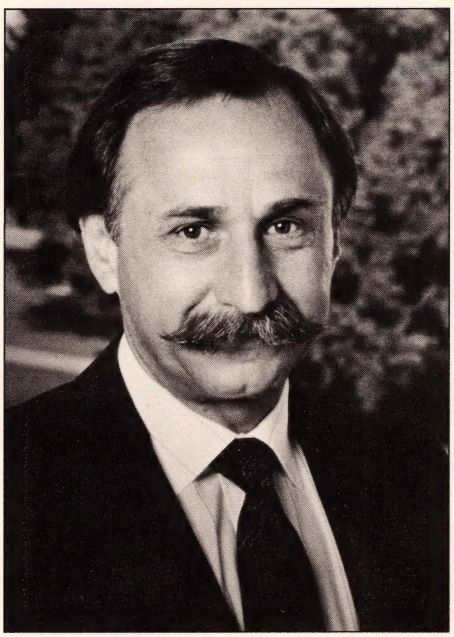
Soldiers and Sailors Memorial Hall Ballroom (6 p.m.)
Fifth Avenue and Bigelow Boulevard*

*Shuttle bus service to and from off-campus ceremonies and/or receptions will depart from Skibo parking lot immediately following main ceremony.

From the Chairman of the Board



Robert A. Charpie



Dr. Robert Mehrabian

It is an honor for me, as chairman of Carnegie Mellon's Board of Trustees, to preside today at the installation of the university's seventh president, Dr. Robert Mehrabian.

Dr. Mehrabian is an internationally recognized materials scientist who has published more than 130 technical papers and edited six books in metallurgy and materials science. The holder of eight U.S. patents, he is a consultant to numerous companies.

He earned his bachelor's and doctor's degrees from the Massachusetts Institute of Technology (MIT).

Dr. Mehrabian began his academic career as a research associate and faculty member at MIT and later joined the faculty at the University of Illinois at Urbana-Champaign.

He moved from Urbana-Champaign to Washington, D.C., where he spent four years in the federal government, first as chief of the Metallurgy Division and later as director of the Center for Materials Science at the National Institute of Standards and Technology.

Prior to coming to Carnegie Mellon, Dr. Mehrabian achieved national prominence as dean of the College of Engineering at the University of California at Santa Barbara (UCSB). In his seven years as dean he initiated new educational and research programs, recruited 65 new faculty to the college and raised funds from industry and government that led to a seven-fold increase in the college's budget and construction of a new engineering building.

He is a member of the National Academy of Engineering, a fellow of the American Society of Metals International and recipient of the Henry Marion Howe Medal of the American Society of Metals and the 1991 TMS Leadership Award from the Minerals, Metals and Materials Society.

Dr. Mehrabian was elected president by the board last spring after a year-long national search in which a committee of trustees, faculty and students evaluated hundreds of candidates. His record of accomplishment, his leadership ability and drive to succeed make Dr. Mehrabian the ideal president to lead this institution to the 21st century.

It is my great pleasure to install Dr. Robert Mehrabian as president of Carnegie Mellon, and to welcome him and his wife Victoria to the Carnegie Mellon family.

Robert A. Charpie

Robert A. Charpie

Guest Speakers

Distinguished Alumni Speaker
Albert C. May (E '21, E '22)

Albert C. May was graduated from the Carnegie Institute of Technology with a degree in mechanical engineering in 1921. A year later he received his master's degree. May has fond memories of his Tech years, where he was one of the first chairmen of Spring Carnival, a member of the Beta Theta Pi fraternity and business manager of The Thistle. Over the years, May has been a friend to all of the university's presidents. As a student he got to know Tech's first two presidents quite well, and remembers Arthur Hamerschlag as an "affable promoter" and Thomas Baker as "very scholarly." May has keen memories of the massive effort to move a "mountain of earth" in front of the College of Fine Arts and pitching in with his classmates in a campus-wide clean-up effort after the Cut was filled in.

Five years after his graduation with the Class of 1921, May joined the Peerless Automatic Machine Company in Cleveland, a manufacturer of special machine products and operator of industrial property founded by his father. He hasn't stopped since. At age 91, May keeps regular office hours as president of Peerless. Likewise, his commitment to his alma mater has never wavered over the years. He has been involved in many Class of 1921 fund-raising efforts, and in the late 1940s became the first chairman of the university's fledgling Annual Fund program. May is a long-time member of Carnegie Mellon's premier giving club, the President's Circle of the Andrew Carnegie Society, a group of university alumni and friends who share the philanthropic principles of university founder Andrew Carnegie. May recently received the Andrew Carnegie Society Silver Award in recognition of his continuous support.

Senior Class Speakers
Matthew Ruben

Matthew Ruben, a professional writing/literary and cultural studies major from Silver Spring, Md., was a journalist for the Carnegie Mellon faculty tabloid, "Focus," and participated in many political and student activities. His editor and professor, David Demarest, describes Ruben as "smart, hardworking, reliable, determined to confront issues, both academic and political. Matt is a distinguished member of this campus community."

Ruben served on Student Senate for three years and was a prominent contributor to "The Student Union," Carnegie Mellon's alternative press. He wrote a senior honors thesis entitled "Looking for Identity: Politics, Discourse and Langston Hughes" and received college honors from the College of Humanities and Social Sciences.

Ruben's remarks focus on the place for his generation in society and in history.

Donna Grear

Donna Grear, a creative writing/literary and cultural studies major from Trenton, Tenn., spent much of her college career supplementing academic training with public service. As a student, she lived with an area family, taking care of their 11- and 13-year-old children. She also was deeply involved with the Shadyside Christian Fellowship and Big Brothers & Sisters of Greater Pittsburgh.

One of her professors, Richard Schoenwald of the History Department, describes her as "an extremely intelligent and thoughtful young woman of deep feeling. She is a terrific writer and a person full of life."

Grear wrote a senior honor thesis entitled "A poetry collection integrating childhood memories and present-day faith" and received college honors from the College of Humanities and Social Sciences.

Her remarks focus on "life lessons" at the culmination of the student experience.

Honored Guests

Alumni Association Award Recipients

Distinguished Friend Award
Donald H. Jones

Distinguished Service Award
John L. Stone (E'29) (posthumously awarded)

Merit Awards
Margaret A. Carver (MM'43)
Maxwell H. Connan (E'39)
Wayne D. Perry (UP'75)
Louis Scheimer (A'52)
Louis R. Shaffer (E'50)

Service Awards
Philip Chosky (E'48)
Michael D. Fox (IM'62, IA'63)
Andrew W. Mathieson (IA'52)
John V. Nelson (S'76)
Jim Willard (A'62) (posthumously awarded)

Education Awards

The Robert Doherty Prize, established to honor substantial and sustained contribution to excellence in education, was awarded in the 1990-91 academic year to **Lawrence Carra**, Professor of Drama, Emeritus.

The William H. and Frances S. Ryan Teaching Award, established to encourage and recognize unusual devotion and effectiveness in teaching undergraduate students, was awarded in the 1990-91 academic year to **Margaret Clark**, Professor of Psychology and **Jack Schaeffer**, Professor of Mathematics.

The 1990-91 College Teaching Award Winners:

Carnegie Institute of Technology
The Benjamin Richard Teare Jr. Teaching Award
Rob Rutenbar, Associate Professor of Electrical and Computer Engineering

College of Fine Arts
The Henry Hornbostel Award
Richard Cleary, Professor of Architecture

Graduate School of Industrial Administration (GSIA)
The George Leland Bach Excellence in Teaching Award
Thomas Kerr, Associate Professor of Law and Industrial Administration (1990)
(1991 award winner to be announced at commencement)

GSIA Undergraduate Business School Award
Konduru Sivaramakrishnan, Associate Professor of Industrial Administration (1990)
(1991 award winner to be announced at commencement)

College of Humanities and Social Sciences
The Elliott Dunlap Smith Award
Ann L. Hayes, Professor of English

Mellon College of Science
The Julius Ashkin Teaching Award
Linda Kauffman, Senior Lecturer, Biological Sciences

School of Computer Science
The Herbert A. Simon Award for Excellence in Teaching
James Roberts, Associate Director of Introductory Programming

School of Urban and Public Affairs
The Emil Limbach Teaching Award
Peter Madsen, Adjunct Associate Professor of Ethics and Public Policy, and **Martcia Wade**, Assistant Professor of Economics and Public Policy (1990)
(1991 award winner to be announced at commencement)

Honored Alumni

A special welcome to our honored alumni who were students during the very first presidential administration (Arthur A. Hamerschlag, president, 1903-22), and whose insights on and understanding of this institution span these many years.

Retiring Faculty

Bruce J. Breland, Professor of Art, Emeritus

Lee Cass, Professor of Voice, Emeritus

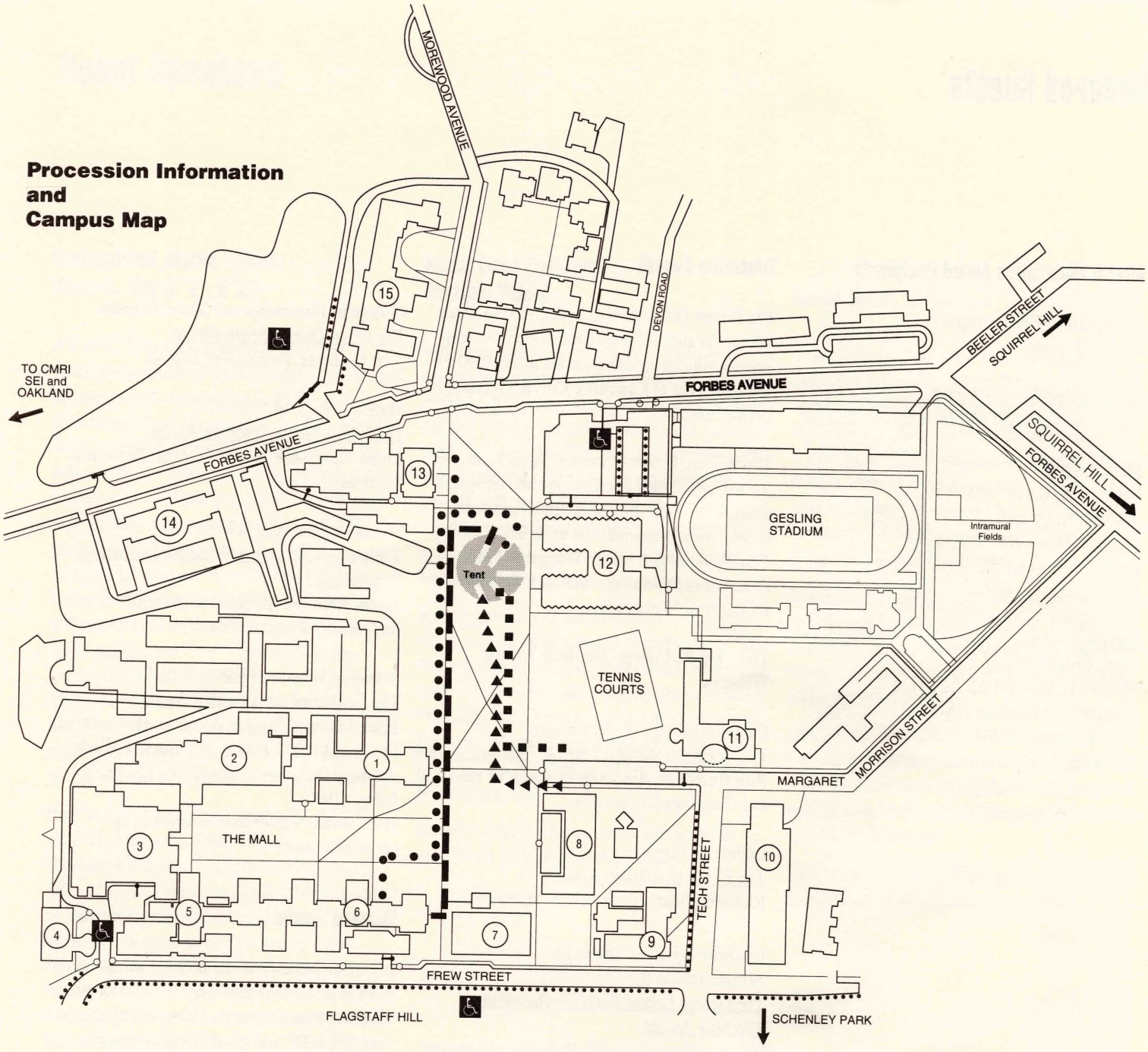
Walter Groer, Professor of Art, Emeritus

Beatrice Krebs, Professor of Voice, Emerita

John Pople, John Christian Warner University Professor of Natural Sciences, Emeritus

Nelson Whittaker, Professor of Piano, Emeritus

Procession Information and Campus Map



Campus Buildings

1. Doherty Hall
2. Wean Hall
3. Hamerschlag Hall
4. Scaife Hall
5. Porter Hall
6. Baker Hall
7. Hunt Library
8. College of Fine Arts
9. Graduate School of Industrial Administration
10. Gymnasium
11. Margaret Morrison Carnegie Hall
12. Skibo Hall
13. Warner Hall
14. Hamburg Hall
15. Morewood Gardens
16. Mellon Institute
17. Software Engineering Institute

(B) = Bachelors
(M) = Masters

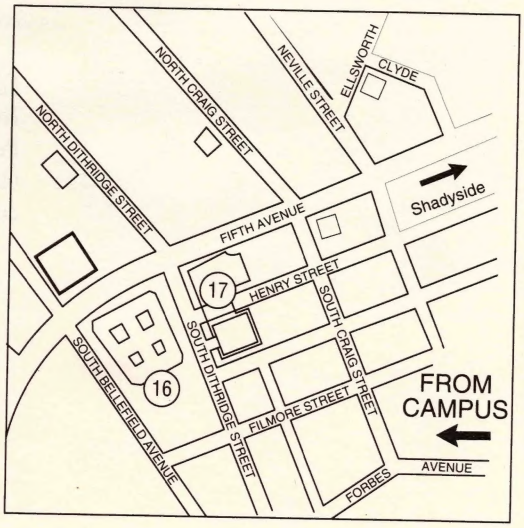
▲ **Column A**
▲ IM
▲ H&SS (B)
▲ H&SS (M)
▲ GSIA

■ **Column B**
■ CFA (B)
■ CFA (M)

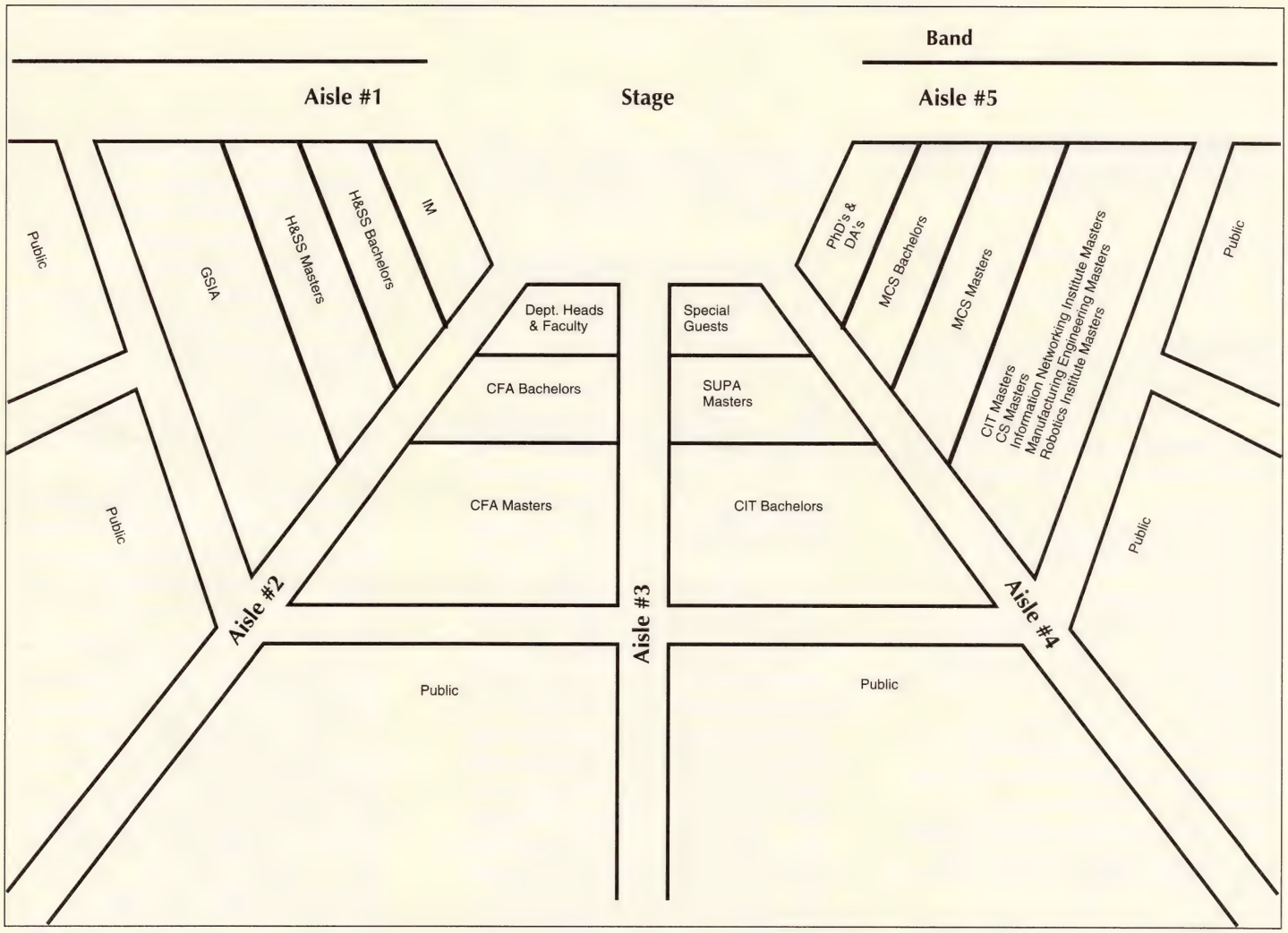
● **Column C**
● SUPA (M)
● CIT (B)

Column D
All Ph.Ds & DAs
MCS (B)
MCS (M)
CIT (M)
SCS (M)
INI (M)
MfgE (M)
Robotics (M)

Oakland



Tent Seating



Candidates for the Bachelor's Degree

College of Fine Arts

Lowry Burgess
Dean of the College

Architecture

Bachelor of Architecture

John P. Eberhard
Head of the Department

Scott Wesley Baumann, Chicago, IL
* Melanie Marie Blasini Gonzalez, Ponce, Puerto Rico
** Henry Israel Bobek, Lido Beach, NY
Elizabeth Anne Buckman, Denver, CO
Gregorio Gungon Calma, Manila, Philippines
Steven David Chaitow, Tampa, FL
Darrit Shaw Cho, East Brunswick, NJ
** Sung Sik Cho, Jinhae, Korea
Daniel Haskel Cohen, New York, NY
Roy David Conard Jr., Warrington, PA
Victor Thomas Curti, Pittsburgh, PA
Annalisa Marie Ekbladh, Hummelstown, PA
** Deborah Lynn Elliott, Bethel Park, PA
Scott Laurence Fisher, Ridgefield, CT
Scott Jared Foerst, Douglasville, GA
Cynthia Antonia Gordon, New Brunswick, NJ
Mohamad Adzlee Harun, Kuala Lumpur, Malaysia
Todd McCabe Hause, Watchung, NJ
Heather McInroy Hood, Philadelphia, PA
James Frederick Johnston, Pittsburgh, PA
Philippe Jarrod Kaplan, Owings Mills, MD
Darrell Charles Kauric, Pittsburgh, PA
Maria Keares, Lancaster, PA
Staci Valerie Kegelman, Warminster, PA
John Chong-Hyeon Kim, Hong Kong
Vern Lei, Philadelphia, PA
Donald James MacDonald, Butler, PA
Kathleen Ann Maurer, Pittsburgh, PA
Becky Lynn Mingo, Washington, DC
Gregory Robert Mottola, New York, NY
Aphrodite Mountrakis, Barnegat, NJ
Kathleen Palaszynski, Pittsburgh, PA
Deborah Faith Przekop, Bayonne, NJ
Maurice Salata, Erie, PA
Donald Ray Schieferecke, Westminster, CO
* Charlotte Ann Schoeneman, Washington, DC
Christopher John Shanley, Glen Ellyn, IL
Sarita Jennie Singh, Stamford, CT
Carissa Leigh Swiss, Huntington, NY
Lynn Ann Truskie, Coraopolis, PA

Architecture and Industrial Management

Pradeep Bhanwarlal Ranka, Bangalore, Karnataka, India

Art

Bachelor of Fine Arts

Bryan Rogers
Head of the Department

Jennifer Ann Arscott, New York, NY
Julie Lynn Barbetta, Fairfield, CT
** Mary Kelley Bowman, Pittsburgh, PA
Andrea Jean Briggs, Villanova, PA
Ingrid Lara Bromberg, Milwaukee, WI
Mary Cara Campbell, Greenlawn, NY
Jessica Marie Caplan, Kensington, MD
Jamie Marie Christner, Pottsville, PA
Paul T. Clabby, West Haven, CT
Anna Victoria Clark, Edinburgh, Scotland
Rachel Justine Clark, Edinburgh, Scotland
Alex Kaminker Cohen, Buffalo, NY
Elizabeth Wakefield Crawford, Andover, MA
Clyde Flint Crumpacker, Newton, MA
Maria T. Demarse, Glastonbury, CT
Lara Johanna Denardo, Hamden, CT
** Diana Jean DiGioia, Murrysville, PA
Christopher M. Evoy, West Hartford, CT
Daniel Burton Fahs, Fairfax, VA
** Heather Ann Feiring, Barrington, RI
** Lauren Beth Frohlich, Manhasset, NY
Sally S. Gehl, Pittsburgh, PA
Daniella Gerstein, Kalamazoo, MI
Patrice Kaye Gitomer, Brooklyn, NY
** Rocio Maria Goff, Fairfax, VA
** Robert Brian Hamer, Coraopolis, PA
Benjamin Lee Harrison, Pownal, ME
** Andrea L. Hirsh, Highland Park, IL
** Benjamin Joseph Horten, Johnstown, PA
Kimberly Marie Janus, Hartford, CT
Hillary Kahn, New York, NY
Nicole Jemmie Knepshield, Pittsburgh, PA
Lisa Noel Kolk, Sudbury, MA
Jeffrey Neil Konigsberg, Scarsdale, NY
Angela Jane Krebs, Rockville, MD
Nancy Jean Kress, Pittsburgh, PA
Suzanne Elsie Lambert, Clearwater, FL
Douglas Paul Lamperski, Pittsburgh, PA
Lauri Leigh Mancuso, Pittsburgh, PA
Neil Justin McCarthy, Roswell, GA
Tara Janel McCarthy, Pittsburgh, PA
Sandra Mary McRae, Ballaxat, Victoria, Australia
Maureen Patricia Mulhern, Emerson, NJ
James Hiram Nesbitt Jr., Rochester, NY
Lori B. Newman, Shaker Heights, OH
Martin James Ohlin, Warren, OH
Robert Frederick Parker, Frederick, MD
Susan Eileen Payne, Barrington, RI
L. Jessica Reeves, Chapel Hill, NC
Anthony Michael Rothberg, Highland Park, IL
Richard James Runas, Gibsonia, PA
Jennifer Saffron, Springfield, VA
Eva Charlene Sandor, East Chicago, IL
Roberto Antonio Santos, Rio de Janeiro, Brazil
Scott Craig Seaver, Madbury, NH
Susan Carlene Sims, Jamesville, NY
* Elice Slafka, Elizabeth, PA
Sarah Ann Smith, Boston, MA
Clifford Jay Snider, Framingham, MA
** Cheri Ann Louise Soriano, Bethlehem, PA
Gretchen Sue Vitamvas, Milwaukee, WI
Scot C. Wallace, Harmony, PA
Kevin William Wick, Northfield, IL
** Toni Philanda Wilkerson, Washington, DC
Fern Eileen Wingert, Pittsburgh, PA
Shari Faith Zolla, Plainview, NY

Art and Literary and Cultural Studies

Timothy Sterrett Brown, Kansas City, MO

Design

Bachelor of Fine Arts

Carroll M. Gantz
Head of the Department

Graphic Design

Kelley Lynn Albert, Weston, CT
Janet Mess Atwater, Pittsburgh, PA
Sean David Barrow, Queens Village, NJ
Lia Ann Calhoun, Haverford, PA
Linda Marilyn Christenson, Pittsburgh, PA

* As of August 21, 1990 ** As of December 21, 1990

Allison Lee Culbertson, Gradyville, PA
* Allison Michele Gaynor, Red Bank, NJ
Patricia Kathleen Hood, Pittsburgh, PA
* Elyse Aileen Kaplan, Dix Hills, NY
Yangsook Kim, Fairfax Station, VA
Melissa D. Kingman, New York, NY
Maria Klein, Pittsburgh, PA
Joseph Edward LaRoche, Arlington, MA
Heather Chia-Chueh Li, Beaverton, OR
Elena June Maccarone, Boxford, MA
Paula Jean Madden, Pittsburgh, PA
Lainie Miyamoto, Baltimore, MD
Kara Brigitta Narath, West Boxford, MA
Amy Rebecca Schmidt, Pittsburgh, PA
Christopher John Shields, Doylestown, PA
Laura Ann Vinchesi, Rochester, NY

Industrial Design

* Steven Driehaus Bates, North East, MD
Grant Elliot Carmichael, Plymouth, MI
Wayne Clement Chung, Bethesda, MD
Alexander Johnson Esrey III, Mount Gretna, PA
Teresa Elena Fernández-Romero, Bronx, NY
Peter Samson Jaffe, Mountainside, NJ
Clare Colley Johnson, Pittsburgh, PA
Leslie Anne Juhng, Columbus, OH
Christopher Dominick Kasabach, Trenton, NJ
Henry S. Kim, Dale City, VA
Carol Ann Komlenic, Greensburg, PA
Miles Steven Krivoshia, McMurray, PA
Andrew Grant Milmoe, Golden, CO
Joshua Dean Murray, New Haven, CT
Russell Joel Riben, Yardley, PA
Gerald Morris Gelber Rubin, Toronto, Ontario, Canada
Jeremy Brooks Savian, Ipswich, MA
Martina Ann Teresa Seuberling, Phoenix, AZ
Ira Matthew Waxberg, Holmdel, NJ
James Homer Wright, Baltimore, MD
Kelly Yang, Taipei, Taiwan
Penelope Cheng Yao, Flushing, NY
Gerard Edward Zeller Jr., Baltimore, MD

Drama

Bachelor of Fine Arts

Elisabeth Orion
Head of the Department

Natalie Venetia Belcon, Bronx, NY
Mark Christian Brettschneider, Cincinnati, OH
Heather Ann Campbell, Fairfax, VA
Amanda Lea Charlton, Edison, NJ
Willard M. Crosby Jr., Buffalo, NY
Ashley Ann Cruz, Manchester, CT
Anthony Pierce Dawson-Ellis, London, England
Natascia Aragno Diaz, New York, NY
Pamela Ann Gutteridge, Palm Beach, FL
Allen David Hahn, New York, NY
Shoshanah Halpern, Belmont, MA
Cassandra Hamilton, Glastonbury, CT
James Douglas Kempf, Garden City, NY
Jeffrey Michael Kubiatowicz, Minneapolis, MN
Ruthanna Marie Kulp, Mechanicsburg, PA
Elizabeth Lynne Mathis, Bethesda, MD
Janet Stacey Mullet, Geneva, OH
Amy Lynn Murray, Westford, MA
Jack Stuart Plotnick, Columbus, OH
William Ellis Porter II, Pittsburgh, PA
John George Powers, West Hartford, CT
Derek Stephen Prince, Los Angeles, CA
Sharon Elizabeth Rosen, Woodbury, NY
Gregory Raymond Stuhr, Eden, NY
Tamara Lynn Tappan, Laurel, MD
Tyrone Taylor, Montclair, NY
Bret Aaron Torbeck, Denver, CO
Caroline Rogers Wood, Poughkeepsie, NY
William Eric Woodall III, Benson, NC

Music

Bachelor of Fine Arts

Marilyn Taft Thomas
Head of the Department

Music (Composition)

Keith Vincent Allen Bajura, Pittsburgh, PA
Christopher Carnell Capizzi, Pittsburgh, PA
Amanda Melody Dixon, Rochester, PA
Mark Steven Kirschenmann, Valparaiso, IN
David Abram Rubinstein, Berkeley, CA

Music Performance (Clarinet)

Meredith Lynn Holtzman, New City, NY

Music Performance (Flute)

Kathryn Dina Johnson, Gaithersburg, MD

Music Performance (Piano)

Nora Marie Henderson, Pittsburgh, PA
Sabine Birgit Klein, Pittsburgh, PA
Kimberly Ann Palomo, Atlantic City, NJ
Ellen Faye Rissinger, Robesonia, PA

Music Performance (Saxophone)

Stephen Albert Torok, North Versailles, PA

Music Performance (Trombone)

Evan Keith Johnston, Pittsburgh, PA
Paul Yen-Chung Lu, Allentown, PA

Music Performance (Trumpet)

Matthew Joseph Keys, Latrobe, PA

Music Performance (Viola)

* Julia Marie Elizabeth Barry, Washington, DC

Music Performance (Voice)

Elisa Eileen Billey, New Stanton, PA
Kristin Kaye Donahue, Detroit, MI
Melinda Jane Klump, New York, NY
Jacqueline Patricia Quirk, Middletown, NJ
David J. Velarde, New York, NY

College of Humanities and Social Sciences

Stephen E. Fienberg
Dean of the College

Economics

Bachelor of Arts

Bennett T. McCallum
Head of the Department

** Halah Lilly Mansour, New York, NY

* As of August 21, 1990 ** As of December 21, 1990

Economics

Bachelor of Science

Bennett T. McCallum
Head of the Department

Jarrett Eugene-Henri Archer, Gambrills, MD
Jay Kenneth Kulyk, Albion, PA
Mark Anthony Mittelhauser, Indiana, PA
Lauren Beth Richter, Port Washington, NY
Marc Nathan Roston, Wilmette, IL
Scott Carmine Smedira, Gaithersburg, MD
Mark Adam Steppel, Potomac, MD
** Evan Swietnicki, Burlington, NJ
** Edward Elliott Weitzel, North Huntingdon, PA

Economics and Applied History

Brid Maire White, Greenwich, CT

Economics and Industrial Management

Marc Howard Anderson, Minnetonka, MN
Peter John Bierfeldt, Buffalo, NY
Henry Keith DeCarlucci, Uniontown, PA
Jonathan Andrew Epstein, Chevy Chase, MD
Yen K. Huynh, Saigon, Vietnam
Marlo Denise Iacona, Mercerville, NJ
* Edward Kass, Merrick, NY
Mona Mohd Noor, Kuala Lumpur, Malaysia
Craig Palli, Newton, MA
Peter Papagianakis, Astoria, NY
John Scott Quarles, Atlanta, GA
** Wayne Roland Tremonti, Pittsburgh, PA
Courtney Lynn Tullar, Pittsburgh, PA
Sharad Uttam, Reading, MA
Francisco Vinoly, Miami, FL

Economics and Philosophy

Dennis Francis Wilke, Meadville, PA

Economics and Policy and Management

Kirk David Lenga, New York, NY

Managerial Economics

** Charles Howard Daniels, Perryopolis, PA
Barrett M. Franklin Jr., Homestead, PA
** Amy Bair Johnson, Pittsburgh, PA
* Andrea Elizabeth Keppler, Great Neck, NY
* Brandon Kyung Kim, Pittsburgh, PA
Christopher Alan Langer, Arnold, PA
David Abraham Lee, Erie, PA
** Kimberly Kay Oppedahl, Vermillion, SD
Matthew Pampena, Pittsburgh, PA
Jason Brad Smith, Spring Valley, NY
Kenneth Steven Tomko, Rydal, PA
Stephen Vincent Tomko, White Oak, PA
* Hong S. Yoo, Seoul, Korea

English

Bachelor of Arts

Alan Kennedy
Head of the Department

Creative Writing

Anna Lucille Currier, Washington, DC
Jeanette Marie Dravk, Wrightsville, PA
David Randolph Gross, Atlanta, GA
** Sean David Kracklauer, Longmont, CO
Charles Ludinsky, Chelmsford, MA
Matthew John Mackenzie, Bethesda, MD
**Mary Marjorie Palcsey, McKeesport, PA
Erika Louise Peterson, Eugene, OR
* Claire Phyllis Rivlin, New York, NY
Jack Silbert, Olney, MD
Jason Garth Smoker, Orlando, FL
Christopher Mathew Thomas, South Windsor, CT
Kevin Michael Thomas, South Windsor, CT
John Edward Vresilovic Jr., Coral, PA
Jonathan Niels Weidlinger, New York, NY
Matthew Gerard Wengraitis, Philadelphia, PA

Creative Writing and Professional Writing

Candace Catherine Klein, Atlanta, GA

Literary and Cultural Studies

* Katherine Lynne Ballay, Pittsburgh, PA
MaryJane Kelly, McKees Rocks, PA
Catherine Michele LoMonico, Skillman, NJ
Jeffrey McKenzie Muller, Severna Park, MD
Tara Marie Noone, West Springfield, MA
Olga Julia Tereshko, Murrysville, PA
Jennifer M. Walter, Alexandria, VA

Literary and Cultural Studies and Creative Writing

Donna Ann Grear, Trenton, TN
Javier Jose Grillo-Marxuach, West Chester, PA
Rebecca Donne Strope Winner, Wilkes-Barre, PA

Literary and Cultural Studies and Creative Writing and Spanish

Ilze Astrida Kelers, Lakewood, OH

Literary and Cultural Studies and Professional Writing

* Keisha A. Watson, Brooklyn, NY

Literary and Cultural Studies and Psychology

Francois Jean Guilleux, Ambler, PA
Rebecca Susan Powers, Sewickley, PA

Professional Writing

Peter James Albert, Edgewood, MD
Kevin Daniel Barney, Fairfax, VA
Deborah Lynn Bey, Pittsburgh, PA
* Jennifer Marisa Colman, New York, NY
Cynthia Lee Elm, Pittsburgh, PA
Richard Jason Engel, Orangeburg, NY
Elsbeth Anne Gorman, Warrenton, VA
Juliet Elizabeth Horn, Washington, DC
Christine Marie Klocek, Hazleton, PA
* Rebecca Anne Lane, Pittsburgh, PA
Lynne Kathleen Leppold, Verona, PA
** Karin Christine Loglisci, Stamford, CT
Paul Owen Lorence, New Kensington, PA
Shari Lynn Miller, Vandergrift, PA
Joey Lynn Monaco, Pittsburgh, PA
Francesco Lino Nepa, Uniontown, PA
Peter Jaemyung Oh, Seoul, Korea
Shizuka Otake, Princeton, IN
Melissa Anne Proios, Medford, NY
Susan Elizabeth Quigley, Wilmington, DE
** Deepa Rajasenan, Ellwood City, PA
Julie A. Ransom, Pittsburgh, PA
Michael Tod Rose, New York, NY
Richard Song, New York, NY
Ann Elizabeth Steffy, Lebanon, PA
Linda Ann Van Keuren, Beach Lake, PA
Kelly Jean Walsh, Holmdel, NJ

Professional Writing and Creative Writin

** David Jason Atkins, Bloomingdale, OH
Jennifer Caryl Bannan, Miami, FL
Dawn Elizabeth Brosonski, Pompton Lakes, NJ
Darlene Rose Fozard, Altoona, PA
Nancy Jane Gleason, Madison, WI
** Katherine Carey Massucci, Coraopolis, PA
Thomas Oliver Musial II, Pittsburgh, PA

Professional Writing and French

Robert Charles Fisher, Bridgewater, NJ
Edith Laurencin, St. Croix, Virgin Islands

Professional Writing and Literary and Cultural Studies

Thea Patiño Brandfon, Newton, MA
Matthew Steven Ruben, Silver Spring, MD

Professional Writing and Literary and Cultural Studies and Spanish

* Julien Anthony Graystone, New York, NY

Professional Writing and Spanish

Sheila Anne Farrelly, Bronxville, NY
Kimberly Anne Legg, Spotswood, NJ

* As of August 21, 1990 ** As of December 21, 1990

English

Bachelor of Science

Alan Kennedy
Head of the Department

Technical Writing

* Brian S. R. Bennett, Blairsville, PA
Rachel Leah Garb, Bensalem, PA
Marvin N. Germany, Pittsburgh, PA
Michael James Schwartz, Pittsburgh, PA
Manfred Woodall, Pittsburgh, PA
Michael Winston Woodring, Allentown, PA

History

Bachelor of Arts

Peter N. Stearns
Head of the Department

Applied History

Christopher Burbank Cory, Darien, CT
John Anthony Christopher Davis, Bethel Park, PA
Jonathan Abraham Elgart, Longmeadow, MA
Marian Kazue Guinn, Springfield, VA
David Gerald Henderson, Rocky Hill, NJ
Daniel Holland, Pittsburgh, PA
* Paul Anthony Martin, Houston, TX
John Thomas Waldron III, Pittsburgh, PA
** Kjell Mikael Karl-Otto Zandin, Pittsburgh, PA

Applied History and European Studies

William Stewart Barnes III, Marblehead, MA

Applied History and Professional Writing

Desiree Antoinette Cook, New Orleans, LA

European Studies and German

David Bradford Conklin, Gainesville, FL

History

** Sandra Lee Baker, King of Prussia, PA
Mary Beth Healy, Attleboro, MA
Michael T. Hession, Philadelphia, PA
** Barbara Aleen McQuain, Elkins, WV
Jessie Barbour Ramey, Pittsburgh, PA
Katherine Fauzia Rashid, Rome, NY
Stacey Gray Stancill, Bel Air, MD
** Marci Anne Vail, East Hampton, NY

History and Cinematic Arts (Student Defined Major)

Melissa Leigh Kaminsky, Muttontown, NY

History and European Studies

Anne Howard Short, Brookline, MA

History and French and German

Jonathan Rau Hurshman, Longjumeau, France

History and Professional Writing

Ann Jane Whidden, Seminole, FL
** Leeann Witherspoon, Pittsburgh, PA

History and Psychology

Paul Charles Hachten, Guilford, CT

History and Spanish

Rachel Ann Batch, Saltsburg, PA

Interdisciplinary History

Rebecca Tiger, Potomac, MD

Interdisciplinary History and Professional Writing

Harriet Katherine Protos, Tarpon Springs, FL

History

Bachelor of Science

Peter N. Stearns
Head of the Department

Applied History

* Michael Anthony Bowman, Philadelphia, PA
Daniel Eric Haag, York, PA
Jonathon Louis Knight, Eighty Four, PA
Richard Allen McCance, Liverpool, PA
Lisa Marie Melenyzer, Oakmont, PA
Christopher John Rapier, Devon, PA
Stefan Savage, New York, NY
Ashish Vasudeva, Bowling Green, OH

Applied History and Economics

Joseph John Schwerha IV, Venetia, PA

Applied History and Managerial Economics

Lui Sieh, Glen Ridge, NJ

Applied History and Spanish

Eric Goheen Hamilton, Los Angeles, CA

History

* John Earl Bush, Sherborn, MA
Dennis Anthony Frey Jr., Canton, OH
David Eric Gould, Pittsburgh, PA
Jeffrey Alan Hinkelman, Pittsburgh, PA

Interdisciplinary History

Seth Justin Kaufman, Princeton, WV
Alicia Jill Moore, Kingsport, TN
** Bruce C. Rodgers, Norristown, NJ

Interdisciplinary History and Economics

Jacquelyn Mae Webber, Myerstown, PA

Philosophy

Bachelor of Arts

Teddy Seidenfeld
Head of the Department

Joseph E. O'Lear, Mount Lebanon, PA

Philosophy and Industrial Management

Kyriacos Ioanni Matsis, Nicosia, Cyprus

Philosophy

Bachelor of Science

Teddy Seidenfeld
Head of the Department

Logic and Computation

Robert Griswold Lefferts, Pittsburgh, PA
Terence Ronald Spies, Fort Collins, CO

Psychology

Bachelor of Arts

David Klahr
Head of the Department

** Laura Bielanowski, Ogdensburg, NJ
** Bruce Joseph Boni, McKees Rocks, PA
Beth Alexis Christiano, Pittsburgh, PA
Adam Todd Cooper, Northbrook, IL

Psychology and German

Aaron S. Benjamin, Ithaca, NY

Psychology and Social and Decision Sciences

Mona Desiree Walker, Cleveland Heights, OH

* As of August 21, 1990 ** As of December 21, 1990

Psychology and Spanish

Carmel Marie Lurito, Arlington, VA

Psychology

Bachelor of Science

David Klahr
Head of the Department

Cognitive Science

** Michael Angelo Franzini, New York, NY
Marc Christopher Pottier, Schaumberg, IL
Walter C. Wong, Blacksburg, VA

Cognitive Science and Logic and Computation

Jonathan Eric Swartz, Great Neck, NY

Psychology

Lori Ann Demeter, Uniontown, PA
Robert Neil Harris Jr., Sandy Hook, CT
** Phillip A. Lee, Sherborn, MA
Alisa Evangeline Mazzarella, Dix Hills, NY
* Lynne Beth Mulhauser, Upper St. Clair, PA
Robin McIver Myers, Durham, NC
Erick Cliff Naka-Mizrahi, Atlanta, GA
Gen Numaguchi, Rye, NY
David Eric Payne, Danville, PA
Cheryl Mara Shapiro, Freehold, NJ
** Lisa Kay Smith, Indiana, PA
Lynn Margaret Walker, East Granby, CT
Steven Walters, Cleveland, OH

Psychology and Industrial Management

** Colleen Ann Krasucki, Muncy, PA

Social and Decision Sciences

Bachelor of Science

Mark S. Kamlet
Head of the Department

Information Systems

* M. Anton Nimblett, Brooklyn, NY

Information and Decision Systems

Fred Ahban Bradbury, Saugus, MA
Scott Michael Cloherty, Munhall, PA
Cindy Gwen Copenhagen, Brentwood, TN
Thomas Andrew Dale, Greensburg, PA
Donald C. DeCaro, Greensburg, PA
Brian David Farley, Clifton Park, NY
Michael Jonathan Fine, Sudbury, MA
Robert Nelson Gasch, Innsbruck, Austria
Braddock John Hathaway, Weston, MA
Jonathan Michael Kaplan, Monsey, NY
Dong Chul Kim, Willingboro, NJ
John McCall Kingsley III, Greenwich, CT
Diane Mary Leland, Concord, MA
Nicolas Paul Louit, Larchmont, NY
Brian Alexander Macdonald, New City, NY
Anne Kathryn MacLellan, Westfield, NJ
Bryn James Marelli, Lower Burrell, PA
Robert John McMahon Jr., Omaha, NE
* Matthew Maertens McNally, Scottsdale, AZ
Donna Louise Mellinger, Ephrata, PA
Holly Marie Nacey, Allison Park, PA
** Cynthia Diane Peperak, Connellsville, PA
Nina Pinto, York, PA
David Robert Polkis, Pittsburgh, PA
Renee Harmony Potash, Trumbull, CT
Valerie Ann Pushwa, Greensburg, PA
* Vincent Putkowski, Lehighton, PA
** Andrew Robert Short, Lincolnshire, IL
Colleen Ida Sims, Pittsburgh, PA
Jonathan Bernard Stark, Melville, NY
David Robert Steinmetz, Pittsburgh, PA
Denise Lynn Vith, Coraopolis, PA
Terence Alister Yarde, Elmsford, NY
Rudolph R. Zung, Singapore

Information and Decision Systems and French and Spanish

Christian Alain Borthayre, Lima, Peru

Information and Decision Systems and Industrial Management

* Benjamin Gil Abramson, St. Louis, MO
Fran Peter Bellante, Pittsburgh, PA
Nigel Philip Zelcer, Davie, FL

Information and Decision Systems and Policy and Management

Marvin Tai-Yuan Chang, Lawrenceville, NJ
William Allen Snyder, Phillipsburg, NJ

Policy and Management

* Stephen Spencer Black, Mansfield, OH
Ann Marie Caretto, Pittsburgh, PA
** Jack Charles Deem Jr., Oakmont, PA
Kristin Jaclyn DeLarato, Belle Mead, NJ
John Frank DiVito, Aliquippa, PA
Victor Nicholas Dristas, Pittsburgh, PA
Michael Hugh Ference, Haworth, NJ
Nicole Marie Hanak, Dubois, PA
Bernadette Camille Harris, St. Louis, MO
Sonya Klimasewiski, Lakeside, CT
Craig Edward Roeder, Phillipsburg, NJ
Irene Hee Shin, Dix Hills, NY

Policy and Management and Industrial Management

Jonathan Peter Freedman, Peekskill, NY
Justin V. Pizzella, Cheswick, PA

Social and Decision Sciences

Jennifer Elizabeth Falter, Springfield, OH
Deidre Rebecca Ferron, Baltimore, MD
Adam Fain Goldsmith, Savannah, GA
Francis Vacys Paganelli, Glens Falls, NY

Social and Decision Sciences and Psychology

Richard Thomas France, Charleroi, PA

Statistics

Bachelor of Science

John P. Lehoczky
Head of the Department

Leslie Marie McGill, Rockville, MD

Student Defined Major

Bachelor of Science

Joseph E. Devine
Associate Dean of the College

Cognition and Visual Communications (Student Defined Major)

Linda Rae Pomerantz, Pittsburgh, PA

Interactive Visual Systems (Student Defined Major)

Aaron Arjuna Young, Bath, ME

Carnegie Institute of Technology

Paul P. Christiano
Dean of the College

Chemical Engineering

Bachelor of Science

John L. Anderson
Head of the Department

Brian Cairns, Donora, PA
Craig William Caputo, McKeesport, PA
Kai Eric Dominik, Canton, OH

* As of August 21, 1990 ** As of December 21, 1990

Thomas Zoltan Fabian, Fullerton, CA
Matthew Paul Fraser, Orinda, CA
Michael Barry Gentzler, Brecksville, OH
Jon Trygve Hille, Seattle, WA
James Stephen Honan, Rochester, NY
Hyo S. Kang, Gaithersburg, MD
David Sigmund Krimsky, Northampton, MA
Matthew Richard McKissock, Youngsville, PA
Steven John Monaco, McMurray, PA
David Ng, Brookline, MA
Carlos José Rodriguez, Elizabeth, PA
* Paul Lawrence Sestili, Rockville, MD
Andrea Lynne Trump, Myerstown, PA
Suzanne Elizabeth Wint, Houston, TX

Chemical Engineering (Biomedical Engineering Option)

Austin Lawrence Belton, Hinsdale, IL
Talaya Ann Blakey, Philadelphia, PA
* Charles Eastman Blanchard, Haddonfield, NJ
Thomas Joseph Brindisi, Ellicott City, MD
Clarence William Brown Jr., Floreffe, PA
Brian Dean Carter, Bow, NH
Ayla Türkü Cinar, The Hague, The Netherlands
Michael Henry Cooper, Yokohama, Japan
Janet Marion Ertel, Pittsburgh, PA
Gene Wayne Franceschina Jr., Pittsburgh, PA
Chin-Wei Huang, Pennington, NJ
John Crafts Knight, Portland, OR
Russell Todd Kronengold, East Windsor, NJ
Christi Lee McDowell, Rome, NY
Gary Allan McMaster, Somerset, PA
Daniel Wayne Ross, Johnson City, TN
Karl Emil Stauss, Flushing, NY
Hudson Tiffany, LaFayette, NY

Chemical Engineering and Chemistry

Kelly Hope Wright, Pittsburgh, PA

Chemical Engineering and Economics

Julian Alexander Bentley, Chapel Hill, NC

Chemical Engineering and Engineering and Public Policy

Alice Catherine Garber, Greensburg, PA
Benjamin Pingwen Kuo, Starkville, MS
** Jonathan Christopher Malone, Blue Bell, PA

Chemical Engineering and Industrial Management

Pu Hsiao, Elmhurst, NY

Civil Engineering

Bachelor of Science

Richard G. Luthy
Head of the Department

Michael Lewis Byrd, Albuquerque, NM
Lorraine Marie Cahill, Bryn Mawr, PA
Mark David Chaplik, Pittsburgh, PA
Thomas Joseph Chmielenski, Edgewater Park, NJ
Geoffrey Ian Cox, Nyack, NY
Gerard Timothy Cronin, Pittsburgh, PA
** Scott Charles Cullen, Gibsonia, PA
Robert Francis DeLisio, New Brighton, PA
Gary Hooyman, Mahwah, NJ
April Denise Perez, Fort Washington, MD
Michael Trumbo Stratton, Macomb, IL
Hoa Cong Trinh, Saigon, Vietnam

Civil Engineering and Engineering and Public Policy

Timothy William Berger, New York, NY
Robert Jamal Frazier, Madison, CT
** John Kang, Baltimore, MD
** Michael Wilding Marston Jr., Media, PA
Jeffrey Laurence Rosenblum, Waterford, CT

Electrical and Computer Engineering

Bachelor of Science

Stephen W. Director
Head of the Department

Computer Engineering

** Marquette John Anderson, Chapel Hill, NC
Bryan Parker Black, Arlington, TX
Jeffrey Albert Bruce, Boxboro, MA
Barry Lowell Brumitt, Waterburg, CT
James Alton Burks Jr., Pittsburgh, PA
William Elton Burky, Pittsburgh, PA
Yuan Chun Chou, Singapore
Douglas Michael DeCarlo, Huntington, NY
Andrea Carol Dusseau, Toledo, OH
Dustin Lynn Frazier, Los Gatos, CA
Douglas Phillip Ghormley, Albuquerque, NM
Felice Michelle Goldgraben, Gaithersburg, MD
John Heinlein IV, Pittsburgh, PA
Michael Dean Johns, Nampa, ID
Robert George Johnston Jr., Stuart, FL
Kenneth N. Kaplan, Cherry Hill, NJ
Paul Gregory Keller, Wayne, PA
Frank Vincent Koss, Lyndhurst, OH
Andy Ang-Ying Lee, Irvine, CA
Jason Che-Yuan Lee, Acton, MA
William Bryan Lott, Tucson, AZ
Edward Joseph Miller II, Erie, PA
Paul T. Moran, Lockport, NY
Christopher John Newman, Seattle, WA
Derek Brooks Noonburg, Ithaca, NY
Jonathan Patrick O'Keeffe, Marstons Mills, MA
Richard Steven Pasetto, Wayne, NJ
Steven Mark Pearlmutter, Kansas City, MO
Mark Edward Schaeffer, Bedford, PA
William Manchester Shubert, Acton, MA
Zachary Thayer Smith, West Grove, PA
Matthew Douglas Sorrels, Colorado Springs, CO
Apinetr Unakul, Bangkok, Thailand
Andrew Jordan Werth, Teaneck, NJ
Wayne Anthony Wong, Kingston, Jamaica
Bryan Wu, Ridgewood, NJ
Jason Yeoung Zien, Rochester, NY

Computer Engineering (Biomedical Engineering Option)

Jane Elizabeth Horner, New Brighton, PA
Andrew Paul Stern, Boston, MA

Computer Engineering and Engineering and Public Policy

Kimberly Kristine Keeton, Harmony, PA

Computer Engineering and Industrial Management

Tseng-Kwan Pen, Taipei, Taiwan

Computer Engineering and Mathematics

Bradford P. Wyatt, West Boylston, MA

Computer Engineering and Mathematics/ Computer Science

Ethan Zane Evans, Oxford, OH
Michael L. Fraenkel, Kew Garden Hills, NY

Electrical Engineering

Michael Benjamin Americus, Pittsburgh, PA
Kelvin Bertrand Belle, Cleveland, OH
David Artin Beojekian, Catskill, NY
Douglas Charles Carey, Pittsburgh, PA
David Mark Carrel, Santa Barbara, CA
Randall Wayne Casciola, Canonsburg, PA
Chun Hsiu Kitty Cook, Hong Kong
Tam Daotien, Freemont, CA
Darin Thomas Dunham, Pataskala, OH
Julie Ellen Gentili, Tacoma, WA
* Gary Kevin Halpin, Fairfax County, VA
Naja Simone Hurt, St. Louis, MO
** Gautham Devendra Kamath, Marlboro, NJ
Kenneth Akira Kochi, Orange, CA
Paul Donald Krivacek, Greensburg, PA
William Li, Stamford, CT
Victor Hui-Kuo Liang, Lexington, MA
Terry Ki Lim, New Canaan, CT
Ihor Andrew Lys, Towson, MD

* As of August 21, 1990 ** As of December 21, 1990

Margaret Mary McGuire, Coraopolis, PA
Philip Thompson Morgan, New York, NY
Jad Nehme, Paris, France
James Kim Park, Baltimore, MD
Michele Marco Pavesi, Milano, Italy
David Bentes Pessoa, Scarsdale, NY
Eric Daniel Peters, Moon Township, PA
John Joseph Pye, Doylestown, PA
Jarett Mayer Smith, Freeport, PA
Guy Richard Spivack, Hewlett, NY
Manish Taneja, East Hartford, CT
Thomas Christopher Toth, Irwin, PA
John Mahlon Van Scyoc III, Plainfield, PA
Timothy James Vitanza, Allison Park, PA
Stephen Rolfe Webster, Alexandria, VA

Electrical Engineering (Biomedical Engineering Option)

Sandi Alexander Kwee, Surabaya, Indonesia
** Marnie Victoria Leonard, Farmington Hills, MI
Sam T. Liu, Taipei, Taiwan
Bela Szabo, Debrecen, Hungary

Electrical Engineering and Computer Engineering

Cameron Christopher Altenhof-Long, Kalama, WA
Charles Edward Batey Jr., Macon, GA
Steven Martin Berman, Coral Gables, FL
Martin Geoffrey Greenberg, Monroeville, PA
Paul Yen-Chung Lu, Allentown, PA
Douglas Linus Rubinstein, Athens, WV
Peter John Skelly, Seattle, WA
Robert Mark Soulchin, Monroeville, PA
** Jonathan Benjamin Stigelman, Lancaster, PA
Kris J. Webb, Pittsburgh, PA

Electrical Engineering and Computer Engineering (Biomedical Engineering Option)

Cecil N. Huang, Pequannock, NJ

Electrical Engineering and Computer Engineering and Mathematics

Gregory Harris Plesur, Hauppauge, NY
Jennifer L. Quirin, Pittsburgh, PA

Electrical Engineering and Engineering and Public Policy

Brian C. Hobbs, Centerport, NY
Karen Marie Pavlosky, Severn, MD

Electrical Engineering and German

* Jeffrey Kirk Bennett, Poland, NY

Electrical Engineering and Industrial Management and Economics

Praveen Kumar Yadalla, Fishkill, NY

Electrical Engineering and Mathematics

Doron Isaac Gartner, Boston, MA

Mechanical Engineering

Bachelor of Science

Glenn Sinclair
Head of the Department

Paul Taylor Alman, Ann Arbor, MI
Mary Beth Ashbaugh, Butler, PA
Stephen Carl Baier, Toms River, NJ
Todd Michael Balbera, Selden, NY
Michael Maximo Boncaldo, Orchard Park, NY
Wayne Maximilian Carson, Cuyahoga Falls, OH
James Woojae Chi, Philadelphia, PA
** Paul Fredric Cohan, Bulawayo, Zimbabwe
David Alan Conley, West Mifflin, PA
Michael Joseph Cuccaro, Coram, NY
Robert Tor Dennis, Darien, CT
Eric Joseph Deutsch, Houston, TX
* Tuyen Tom Dinh, Houston, TX
** Eric Pierre Dion, Concord, MA
Anil Kumar Gupta, Samastipur, Bihar, India
Nicholas Paul Harrigan, Damascus, MD
Brian Scott Hill, Hudson, OH
James Hom, New York, NY
Eric David Hornchek, Fairless Hills, PA
Charles Robert Jankowski, Steubenville, OH
Thor Nelson Juneau, Loveland, CO
Sanjay Lalji Khant, Windsor, CT
Ashish Khera, Rye Brook, NY
Brian C. Kral, Bethel Park, PA
Jeffrey Robert Lau, Columbia, MD
Jaehyok Lee, Seoul, Korea
Sungwon Lee, Seoul, Korea
Mark Alan Lemkin, Gaithersburg, MD
Tze-Sung Ted Lin, Terre Haute, IN
Peter Anthony Low, White Plains, NY
Michael Gavin Lum, Lafayette, CA
Joshua David Lynn, Elkins Park, PA
Charles Ernest Mennell, Slippery Rock, PA
** Patrice Alexandre Missud, Forest Hills, NY
Thomas John Murphy, Pittsburgh, PA
Robert Vincent O'Toole III, Worthington, OH
Mark David Pogozelski, Monroeville, PA
George Nicholas Pyros, Pittsburgh, PA
Christine Marie Sepples, Harwinton, CT
Jude Thomas Sweeney, Johnsonburg, PA
Dean Mitchell Thomas, Ephrata, PA
* Philip Karl Tubesing, Duluth, MN
Carol Christine Will, Gainesville, FL
David Henry Willis, Foxboro, MA
Brian Paul Wilson, Baltimore, MD

Mechanical Engineering (Biomedical Engineering Option)

Jennifer Lynne Barnes, Acton, MA
Shing Kwei Chiou, North Potomac, MD
Benjamin John Kman, Cleveland, OH
Mary Ida Smith, Stevens Point, WI
** Mylon Walker III, Chicago, IL
Conrad Mark Zapanta, Harrisonburg, VA

Mechanical Engineering and Economics

** Nathan Herbert Harding, Houston, TX

Mechanical Engineering and Engineering and Public Policy

Annaliz Abu Bakar, Batu Pahat, Malaysia
Jeffrey Lee Cantor, Mahwah, NJ
Shafi Nur Khan, Hamilton Square, NY
Gopinadhan P. Pandalai, Monroeville, PA
John Frans Stuhlfire, Boston, MA

Mechanical Engineering and Industrial Management

Eric Vaughn Hansen, Tenafly, NJ

Metallurgical Engineering and Materials Science

Bachelor of Science

Harold W. Paxton
Acting Head of the Department

Sambu David Dakuginow, Landenberg, PA
* David W. Hughes, Alexandria, VA
** James Sabin Jantos, Bethel Park, PA
Jin Hee Kang, Philadelphia, PA
Dong Wook Kim, Bronx, NY
Casimir Joseph Koshinski, Shickshinny Lake, PA
Melissa Marie Laffey, Coraopolis, PA
** Jing Jing Li, Li-Shui, Zhejiang Province, China
Brian Eric Lippert, Pittsburgh, PA
** Trung Quoc Luong, Worcester, MA
Kurt Jonathan Lusky, Worthington, OH
** John Edward Matz, Pittsburgh, PA
** Michael James Nystrom, Titusville, PA
Syed Farhat Abbas Quli, Mountaintop, PA
David Michael Ravetti, Colorado Springs, CO
Samuel Joseph Robb, White Oak, PA
** David James Sitar, Westlake, OH
Amy Joan Somrak, Cleveland, OH
Jaedeok Yoo, Drexel Hill, PA

* As of August 21, 1990 ** As of December 21, 1990

Metallurgical Engineering and Materials Science (Biomedical Engineering Option)

Christopher Joseph Gilbert, Portland, OR
** Annette Margaret Marsh, Pittsburgh, PA
Heather Renee Uljon, St. Marys, PA
Roy L. White, Vienna, WV

Metallurgical Engineering and Materials Science (Electronic Materials Option)

Stephen Roy Gilbert, Portland, OR

Metallurgical Engineering and Materials Science and Engineering and Public Policy

Marcel Bilbao, Pamplona, Navarra, Spain
Craig Damon Hillman, Silver Spring, MD
** Michael John Nappi, Pelham Manor, NY
Steven Peter Prock, Albany, NY

Mellon College of Science

Robert F. Sekerka
Dean of the College

Biological Sciences

Bachelor of Arts

Susan A. Henry
Head of the Department

Biological Sciences and Managerial Economics

Stephen Todd Nagy, Lancaster, PA

Biological Sciences and Psychology

Irene L. S. Kao, Pittsburgh, PA
Kelli Bouvais Satterwhite, Mahopac, NY

Biological Sciences

Bachelor of Science

Susan A. Henry
Head of the Department

Deborah Marie Allen, Steubenville, OH
Curtis Charles Ball II, Lindenwold, NJ
** Robert Patrick Brendza, West Mifflin, PA
Kristin Lee Burgard, Pittsburgh, PA
Simon Li-Ping Chen, Columbia, MD
Stephen Joseph Dimartino, Massapequa, NY
Deana Lynn Erdner, Pittsburgh, PA
Charles Richard Esther Jr., Bethlehem, PA
Anil S. Gokhale, Erie, PA
** Scott Davidson Hines, Pennsville, NJ
Priscilla Ying Hsue, Los Alamos, NM
Kimberly Jane McGraw, East Meadow, NY
Michele Gwyn Mehaffey, Seattle, WA
Rachel Todd Noble, Valencia, PA
Keith Richard Olson, Groton, MA
Susan Elizabeth Olson, Lawton, OK
Sasikala Pattabhiraman, Reston, VA
* David William Provance Jr., Lanexa, KS
Aylin Rizki, Kyrenia, Cyprus
David John Sieg, Levittown, PA
Michael Andrew Silver, Dover, PA
Susan Elizabeth Sparks, Wauconda, IL
Dietrich Aziz Stephan, Pittsburgh, PA
** Theodore Levette Tsoras, Wheeling, WV

Biological Sciences and Industrial Management and Economics

Tsu-Hon Wang, Palos Heights, IL

Biological Sciences and Psychology

Antine Elaine Stenbit, Oakton, VA

Biological Sciences and Technical Writing

Thomas David Anfuso, Bethlehem, PA

Chemistry

Bachelor of Arts

Guy C. Berry
Head of the Department

Patrick Lawrence Perry, Norwalk, CT

Chemistry

Bachelor of Science

Guy C. Berry
Head of the Department

Bradly Vance Breakwell, Uniontown, PA
Jeffrey Philip Corsetti, New Brighton, PA
Colleen Angela Costello, North Canton, OH
Matthew Eric Davis, New Kensington, PA
John David Fernbacher, Allentown, PA
Thomas Ross Nichols, Greenville, PA
Michael Andrew Silver, Dover, PA

Chemistry and Biological Sciences

Mahmud Muhiedine Barmada, Pittsburgh, PA

Chemistry/Computer Science Track

Allan Stuart Myers, Scarsdale, NY

Mathematics

Bachelor of Science

William O. Williams
Head of the Department

Applied Mathematics (Computer Science)

Christopher Leon Fedor, Newbury, OH
Granville Boman Goza IV, Saegertown, PA
Judith Ann Jackson, Pittsburgh, PA
Miles Steven Krivoshia, McMurray, PA
** Steven Kern Martin, Johnstown, PA
Paul Edward Mercadante, Chester Springs, PA
** Glenn C. Meter, Deerfield, IL
Scott Hunter Morgan, Annapolis, MD
Susan Gail Murray, East Brady, PA
Randolph Todd Newton, Emlenton, PA
David Earl Rager, Johnstown, PA
Joshua Eric Raiff, Pittsburgh, PA
Gregory Philip Rhoads, West Palm Beach, FL
Michael F. Riccio, Philadelphia, PA
Rachel Leah Rubin, Los Angeles, CA
Joseph Robert Sawyer, Princeton, NJ
James Howard White, King of Prussia, PA
Todd Andrew Williamson, Harrisonville, MO

Applied Mathematics (Computer Science and Operations Research)

Helga I. Yang, Cincinnati, OH

Applied Mathematics (Computer Science) and German

Lisa Marie Colosimo, Plymouth, MI

Applied Mathematics (Operations Research)

Lisa Ann Baughman, Export, PA
Michael Anthony del Tufo, Dover, DE
Kenneth Andrew Globerman, Brooklyn, NY
Jeffrey D. Illian, Oak Park, IL
Rahul Chandra Kapur, East Brunswick, NJ
Catherine Pearle Milligan, Beaver, PA
** Binh Duc Nguyen, Manassas, VA
Kristina Marie Pasqualin, Aliquippa, PA
Mark Kevin Patrick, Portsmouth, NH
Theodore Kenneth Ralphs, Hatfield, PA
Richard Phillip Romeo, Arnold, PA
Scott Carmine Smedira, Gaithersburg, MD

Applied Mathematics (Operations Research) and Economics

Raymond Allen Atkins, Pembroke, MA

Applied Mathematics (Operations Research) and Industrial Management

Kelly Marie Clark, Natick, MA
** Jin H. Kwon, Seoul, Korea
Anthony Edward Lalli, Export, PA

* As of August 21, 1990 ** As of December 21, 1990

Susan Camille Moll, Richboro, PA
William Gregory Schoeller, Asbury, NJ
Eric Scott Schwartz, Hillsborough, NJ
Christopher J. Smith, Abington, PA
Randy Lee Wilson, Ruffs Dale, PA

Applied Mathematics (Scientific Computing and Engineering Systems and Operations Research)

Andrew Jay Shurak, New York, NY

Applied Mathematics (Scientific Computing and Engineering Systems)

Antoine Paul Brusseau, Detroit, MI

Applied Mathematics (Statistics)

Abigail Kathryn Wescott Ochberg, Okemos, MI

Mathematics

John Francis Bukowski, Bethel Park, PA
John Lawrence Cusack, Wheeling, WV
James Alan Dale, Dix Hills, NY
Daniel A. Davis, Silver Spring, MD
Michelle Kathleen Frantz, Cogan Station, PA
Paul Triantafilos Hadavas, Swarthmore, PA
** Susan Michele Hrishenko, Clinton, PA
Caroline Esther Jesurum, Stamford, CT
* Carl William Lingen, Wyoming, OH
Paul Yen-Chung Lu, Allentown, PA
Jennifer Dawn Myers, Poughkeepsie, NY
Darrell Keith Root, Portland, OR
Kemp Douglas Ross, Yardley, PA
Amy Tamara Shalikashvili, Carlisle, PA

Mathematics and Cognitive Science

John Jehiel Ginsburg, Albuquerque, NM

Mathematics and Physics

Randall Knowles Smith, Stow, OH

Mathematics and Professional Writing

Franklin Howard Pierce III, Hudson, OH

Mathematics and Spanish

June Diane Wicinas, North Huntingdon, PA

Mathematics/Computer Science

David Bernard Apfelbaum, Armonk, NY
Jeffrey Allen Byard, Centerville, OH
Chadley Kaye Dawson, Peachtree City, GA
Douglas Michael DeCarlo, Huntington, NY
Mario C. Goertzel, Santa Cruz, CA
Brian Matthew Gottier, Downingtown, PA
Timothy Rein Gottschalk, Pittsburgh, PA
Joseph Lawrence Jackson Jr., Saratoga Springs, NY
LeRoy Earl Jones, Philadelphia, PA
John Stephen Kalucki, Berkeley Heights, NJ
Michael A. Libes, Montville, NJ
Christopher John Newman, Seattle, WA
Troy Thomas Rysedorph, Nassau, NY
R. Stephen Sadoski, Hyde Park, NY
Andrew David Segal, Forest Hills, NY
Mark Evan Simon, Farmingdale, NY
Sherman Uitzetter, Cambridge, MA

Mathematics/Computer Science and Cognitive Science

Terrance Paul McCartney, Pittsburgh, PA

Mathematics/Computer Science and Industrial Management

Lawrence Jacob Lichty, Wescosville, PA

Physics

Bachelor of Science

Robert W. Kraemer
Head of the Department

Christopher Gene BeHanna, North Huntingdon, PA
* Edward Joseph Bennett, Meadville, PA
Barry Lowell Brumitt, Waterburg, CT
John Francis Bukowski, Bethel Park, PA
Qun Chen, Beijing, China
Zoa Evans Conner, Pittsburgh, PA
Eric Joseph Dean, Springfield, VA
Gérard Omer Gagnon, Lynnfield, MA
Stephen Brent Houchen, Sistersville, WV
Mark Paul Krenitsky, Butler, PA
J. Andrew Markiel, Westerville, OH
Laurie Elaine Schneider, Oak Ridge, TN
Sean Eric Shaheen, Allison Park, PA
Stephen Phillip Wengraitis, Philadelphia, PA
Matthew Raymond Whiteley, Whipple, OH
Todd Andrew Williamson, Pittsburgh, PA
Jae Yang, Honolulu, HI

Physics and Philosophy

Kevin Yungsun Kim, Harvard, MA

Physics and Scientific Instrumentation

Darryl Edward Granger, Huntsville, AL
Paul Gregory Nagy, Lawrence, NJ

Department of Industrial Management

Dennis N. Epple
Acting Dean of the Graduate School of Industrial Administration

Industrial Management

Bachelor of Science

Ilker Baybars, Associate Dean of the Graduate School of Industrial Administration
Acting Head of the Department

Indu Tara Agarwal, New Philadelphia, OH
Nadal Gustavo Antonioni, Greenwich, CT
Scott Edward Baciak, Charleroi, PA
Elizabeth Anne Bailey, Pittsburgh, PA
Chetan Balachandra, Needham, MA
Chris Themistocles Balouris, Pittsburgh, PA
Inger Alicia Bazron, Port Arthur, TX
Daniel Nelson Bergad, Torrington, CT
Sujit Kumar Bhattacharya, Williamsville, NY
Yael Rimona Bickel, Baldwinsville, NY
Andrea Marie Boyer, Harrisburg, PA
Robert Luther Brumfield, Colorado Springs, CO
Katrina Theresa Chizmar, Aliquippa, PA
Todd Matthew Christensen, Midland, MI
Joseph Michael D'Ambrosio, Silver Spring, MD
John Francis D'Amico, Belle Mead, NJ
Matthew J. Dodds, Little Silver, NJ
Douglas Walter Donehoo, Steubenville, OH
Gloria Ivette Febres, Denville, NJ
Eric Hugh Gay, Westbrook, ME
** Michael William Gleba, Pittsburgh, PA
Michael Evan Gordon, Pittsburgh, PA
Eric Michael Harris, Baltimore, MD
** Susan Jane Hayes, Fairmont, WV
Anne Elizabeth Heinle, Beaver, PA
Elynor Joyce Helman, Jeannette, PA
Frederick Byron Hildebrand III, Pittsburgh, PA
Lewis A. Jackson IV, Riston, VA
Deborah Iris Jacobs, Dallas, TX
Roy Louis Jannenga, Harleysville, PA
Stephen Lamar Jones, Villanova, PA
** Michael Todd Juzwiak, Kalamazoo, MI
Kenneth Evan Kennedy, Lexington, KY
Jennifer Kochanowski, Pittsburgh, PA
Victor Ting Chung Law, Woodside, NY
Lucia Lee, Philadelphia, PA
Paul R. Leider, Penn Wynne, PA
David James Liebel, New Kensington, PA
Jonathan William Lipsitz, Miami Beach, FL
Derek Y. H. Low, Briarcliff Manor, NY
Michelle Anne Maryanski, Mount Pocono, PA
Scott Douglas May, Audubon, PA
Melissa Marie McAfee, Pittsburgh, PA

* As of August 21, 1990 ** As of December 21, 1990

Colleen Kay McAnlis, Enon Valley, PA
Mark Christopher McCague, Oakmont, PA
James David McPherson, New Orleans, LA
James Robert Miklosko, North Huntingdon, PA
Michael James O'Toole, Pittsburgh, PA
Dipesh Patel, Edison, NJ
** Michael Louis Pavlot, Pittsburgh, PA
Kishore Dhulipala Rao, Cleveland, OH
Roderick K. Reeder, Beaver Falls, PA
Walter Paul Schearer III, St. Charles, IL
Lisa Renee Schmidt, Aliquippa, PA
Anthony Paul Schribman, St. Paul, MN
Julie Ann Sexton, Needham, MA
* Maulik Jasubhai Shah, Bombay, India
Jeffrey Marc Shelton, Pittsburgh, PA
David Bond Smith, Pittsburgh, PA
Harry Leonard Van Tassell, Watchung, NJ
Ronald Edward Wagner, Pittsburgh, PA
Adam Ross Walden, West Hartford, CT
Michael Eli Yellin, Greenwich, CT
H. Scott Yoder, Souderton, PA
David Allan Zinsner, Coraopolis, PA

Industrial Management (Graphic Communications Management)

Scott Christopher Barnyak, Jeannette, PA
Kristen Elizabeth Empie, Winston-Salem, NC
Neil Anthony Herzinger, Arnold, MD
Kristina Joyce Kirmse, East Windsor, NJ
Lillian Marie Marshall, Havelock, NC
Donald Scott McCuen, Avella, PA
Darryn Alexandra Mintz, Silver Spring, MD
Jack Edward O'Savage II, Roscoe, PA
Valdamir William Ormond, Philadelphia, PA
Trissa Tatiana Ridgell, Mars, PA
John William Riesmeyer, Mars, PA
Sabrina Ann Staley, Beaver, PA
Laura Melissa Stern, Sanibel Island, FL

Industrial Management and Applied Mathematics (Computer Science)

John J. Lucena, Chestnut Ridge, NY

Industrial Management and Economics

Kevin Robert Bertolini, Lincoln, RI
Barry John Betzler, Audubon, PA
John Robert Carlisle, Uniontown, OH
Hon Chau Chan, Hong Kong
Aaron Joseph Cornfeld, Huntington, WV
** John Douglas Evans, Oakland, MD
Jeffrey Tod Housenbold, Old Bridge, NJ
Mark Joseph Imhoff, Pittsburgh, PA
** Andrew Lawrence Mandelbaum, East Windsor, NJ
Stephen Paul McGowan, Smithtown, NY
August James Moret, Lower Burrell, PA
Kenneth Blake Nerhood, Cuyahoga Falls, OH
** James Joseph O'Connell Jr., Washington, DC
John Edward Peet, Guayaquil, Ecuador
Mary Grace Gina Strauss, Aliquippa, PA
Nicholas Emanuel Terezis, Steubenville, OH
Calvin Ming Wong, Toms River, NJ
Scott Robert Zucker, Bala Cynwyd, PA

Industrial Management and Economics and German

Rachel Shalom Heller, Baar, Switzerland

Industrial Management and Policy and Management

Lara Anne Bergfeld, Montclair, NJ

Industrial Management and Psychology

Edward Kyun-Hee Chang, Jericho, NY
Scott Armstrong Harrison, Marietta, GA
Philippe Louis Meck, Lawrenceville, NJ

Industrial Management and Spanish

* Jon A. Blizzard, Scranton, PA

* As of August 21, 1990 ** As of December 21, 1990

Candidates for the Master's Degree

College of Fine Arts

Lowry Burgess
Dean of the College

Architecture

Master of Architecture

John P. Eberhard
Head of the Department

Madeline Marie Brady, Largo, FL
B.F.A., Parsons School of Design, 1988

Scot Ashlee Brooks, Southampton, NY
B.A., Rice University, 1986

Bernice W. Chen, Princeton, NJ
B.A., University of Pennsylvania, 1987

** James Michael Dickason, Columbus, OH
B.S., Ohio State University, 1988

Carlos Maurice Ferre, Pittsburgh, PA
B.F.A., Syracuse University, 1982

Jennifer Waller Flynn, Ross, CA
B.A., St. John's College, 1986

Claire Burke Gallagher, Spring Lake, NJ
B.S., University of Tampa, 1976
M.A., Monmouth College, 1981

Linda Parker Gates, Hudson, OH
B.A., Denison University, 1986

Jo-Ann Joseph Khoory, Baghdad, Iraq
B.S., Wentworth Institute of Technology, 1988

Andrew John Kosusko, Newton, NJ
B.C.E., University of Delaware, 1988

Andrew Neill Lang, Chicago, IL
B.A., Johns Hopkins University, 1988

Helen Corless Mabry, North Bergen, NJ
B.F.A., University of Dayton, 1974

** Robert Christian Marquart, Pittsburgh, PA
B.S., Pennsylvania State University, 1971

Carolyn Anna Marie Pfatteicher, East Stroudsburg, PA
B.A., Mount Holyoke College, 1986

* Stephen Michael Selin, Pittsfield, MA
B.S., Massachusetts Institute of Technology, 1982

Martin Lubor Stejskal, Mahopac, NY
B.S., State University of New York at Binghamton, 1988

Michelle Robinson Wyckoff, Sewickley, PA
B.A., Trinity College, 1986

Architecture

Master of Science

John P. Eberhard
Head of the Department

Raghu R. Bhat, Bombay, India
B.Arch., Indian Institute of Technology, 1982

Maged Fattal, Beirut, Lebanon
B.Arch., Lebanese University Institute of Architecture & F., 1987

Luke John Fikioris, Athens, Greece
B.Arch., National Technical University of Athens, 1989

Churn-Der Hwang, Changhua, Taiwan
B.S., National Cheng Kung University, 1986

Inhan Kim, Seoul, Korea
B.S., Seoul National University, 1988

Wen-Yang Lin, Tai-Tung, Taiwan
B.Arch., Chung Yuan University, 1985

** Paul Alencheril Mathew, Cochin, Kerala, India
B.Arch., Manipal Institute of Technology, 1989

Marc Wagner Schindewolf, Ridgefield, CT
B.Arch., Carnegie Mellon University, 1988

* Gamil Serag-Eldin, Englewood, CA
B.A., Cairo University, 1982

Rudi Stouffs, Overijse, Belgium
##, ## VUB, Brussels, Belgium, 1989

Robert Ching-Ping Tseng, Taipei, Taiwan
B.Arch., Feng-Chia University, 1987

Kung-Jen Tu, Tainan, Taiwan
B.S., Cheng-Kung University, 1986

Art

Master of Fine Arts

Bryan Rogers
Head of the Department

Todd Henry Bartel, Manitowoc, WI
B.F.A., Rhode Island School of Design, 1985

* Mayumi Matsuo, Osaka, Japan
Diploma, Musashino Art University, 1988

Drama

Master of Fine Arts

Elisabeth Orion
Head of the Department

Costume Design

Diane Kubasak Collins, Pittsburgh, PA
B.A., University of Pittsburgh, 1977

Tom Stokes, Hyde Park, NY
B.A., Wagner College, 1985

Costume and Lighting Design

Debra Carol Marks, Charleston, WV
B.F.A., Virginia Commonwealth University, 1986

Directing

Roxana Avila Harper, San Jose, Costa Rica
B.S., Universidad de Costa Rica, 1986
B.A., Universidad de Costa Rica, 1987
Licenciatura, Universidad de Costa Rica, 1988

Jed Allen Harris, Milwaukee, WI
B.F.A., University of Wisconsin, Milwaukee, 1974

Lighting Design and Production

Joel P. Blanchard, Rutland, VT
B.A., Rhode Island College, 1982

Playwriting

Brad Korbesmeyer, St. Louis, MO
B.J., University of Missouri, 1976

Production and Lighting Design

Steven L. George, Pittsburgh, PA
B.F.A., Clarion State College, 1983

Scene and Costume Design

* Carmen Roxanne Sherbeck, Waynesboro, VA
B.Arch., University of Virginia, 1975

Anne Marie Thompson, San Rafael, CA
B.A., Carleton College, 1988

* James Burke Wood, Andrews, NC
B.A., Western Carolina University, 1972
M.Ed., University of North Carolina at Greensburg, 1974

Anthony Mark Worthington, Spokane, WA
B.A., Reed College, 1983

Music

Master of Fine Arts

Marilyn Taft Thomas
Head of the Department

Music (Composition)

Armando Luna, Chihuahua, Mexico
Certificadode Composicion, Conservatorio Nacional de Musica, 1989

Hebert Andres Vazquez, Mexico City, Mexico
Certificado de Composicion, Conservatorio Nacional de Musica, 1989

Music Performance (Cello)

Maria Lourdes Lecuona, San Sebastian, Spain
Titulo Superior Cello, Real Conservatorio Superior de Musica de Madrid, 1989

* Jeffrey Gerald Schoyen, Decatur, GA
B.Mus., New England Conservatory, 1983

* As of August 21, 1990 **As of December 21, 1990

Music Performance (Conducting)

Gilbert Byron Rose, Pittsburgh, PA
B.Mus., University of Cincinnati, 1986

Music Performance (Double Bass)

Joan Collell, Barcelona, Spain
Titulo Profesional Double Bass, Conservatorio Superior de Musica de Barcelona, 1989

Francisco Javier Fernandez, San Sebastian, Spain
Titulo Superior Double Bass, Conservatorio Superior de Musica de San Sebastian, 1989

Music Performance (Euphonium)

Scott Richard Eisenreich, Pittsburgh, PA
B.S., Duquesne University, 1988

Music Performance (Flute)

Alberto Almarza, Santiago, Chile
Estudios Basieos, Universidad Catolica de Chile, 1980

Music Performance (French Horn)

Michael Gerard Zeglinski, Monaca, PA
B.S., Duquesne University, 1989

Music Performance (Piano)

Christopher Glenn Connell, Pittsburgh, PA
B.Mus., Oberlin College, 1983

Consuelo Medinilla, Guatemala City, Guatemala
B.A., Institute Nacional de Bellaso Artes, 1974

Music Performance (Saxophone)

Lloyd Edgar Allen Porter, Blountville, TN
B.A., East Tennessee State University, 1989

Music Performance (Tuba)

Todd Hampton Pascuzzi, Pittsburgh, PA
B.F.A., Carnegie Mellon University, 1973

Music Performance (Viola)

Thalia Pinete Pellon, Mexico City, Mexico
Licenciada Instrumentista con Especialidad en Viola, Escuela Nacional de Musica de la Universidad Nacional Autonoma de Mexico, 1988

Maria Rosario Requejo, Madrid, Spain
Titulo Professional Viola, Real Conservatorio Superior de Musica de Madrid, 1989

Jane-Yi Su, Taipei, Taiwan
B.A., National Taiwan Normal University, 1988

Music Performance (Violin)

Ignacio Buqueras, Madrid, Spain
Titulo Violin, Real Conservatorio Superior de Musica de Madrid, 1989

Marcelino Garcia, Aviles, Spain
Titulo Profesional Violin, Conservatorio Profesional de Musica de Oliedo, 1988

Arturo Gonzales, Mexico City, D.F. Mexico
Diploma, Conservatorio Nacional de Musica, 1988

** Paul Naoki Kikuchi, Pittsburgh, PA
B.F.A., Carnegie Mellon University, 1989

Music Performance (Voice)

Liliana Gómez-Arzapalo Alvarez, Mexico City, Mexico
Diploma de Cantante de Opera y Concierto, Conservatorio Nacional de Musica, Mexico, 1989

Cheryl Ann Shenefelt, North Huntingdon, PA
B.Mus., Seton Hill College, 1989

Scott Carlisle Walters, Nyack, NY
B.F.A., State University of New York at Purchase, 1989

College of Humanities and Social Sciences

Stephen E. Fienberg
Dean of the College

English

Master of Arts

Alan Kennedy
Head of the Department

Daniel Ryan Bidwa, Hanover, PA
B.A., Carnegie Mellon University, 1990

Mary Rose Garrubba, Pittsburgh, PA
B.A., Duquesne University, 1990

Diane Kay Haugen, Barnesville, MN
B.A., University of Maryland, 1964
M.A., University of Maryland, 1966

Lorraine D. Higgins, Pittsburgh, PA
B.A., Carnegie Mellon University, 1985

Maureen Ann Mathison, Columbus, OH
B.A., Georgia State University, 1980
M.Ed., Ohio State University, 1987

Jennifer Severa, Brackenridge, PA
B.A., Carnegie Mellon University, 1990

Shea MacKenzie Wilson, Olympia, WA
B.A., University of Washington, 1989

Professional Writing

** Patricia Bozic, Williamsport, PA
B.A., Ithaca College, 1974
M.S., Boston University, 1978

Edward Patrick Costello, Downers Grove, IL
B.A., Allegheny College, 1989

Felicia Fay Ferlin, North Huntingdon, PA
B.A., University of Pittsburgh, 1987

Matthew Neil Jameson, Veto Lake, OH
B.A., Marietta College, 1989

** Patricia Sawako Loring, Tokyo, Japan
B.A., Carnegie Mellon University, 1988

Lisa Florence Murray, Pittsburgh, PA
B.A., Carnegie Mellon University, 1990

Jodi Ann Richard, Baden, PA
B.A., Pennsylvania State University, 1987

** Michael Scott Tasker, Harrisburg, PA
B.A., Waynesburg College, 1988

Michael Thompson, Pittsburgh, PA
B.A., State University of New York at Albany, 1988

History

Master of Arts

Peter N. Stearns
Head of the Department

** Richard Edward Durbin, Newburgh, NY
B.A., Union College, 1989

James Austin Gilchrist, Pittsburgh, PA
B.A., Yale University, 1977
M.Div., Yale University, 1979
M.P.I.A., University of Pittsburgh, 1986

Loretta Sullivan Lobes, Pittsburgh, PA
B.A., Marymount College, 1969
M.Ed., University of Pittsburgh, 1987

Eugene A. Smith III, Frostburg, MD
B.A., California State University, Chico, 1989

Matthew Saul Weiss, Philadelphia, PA
B.A., George Washington University, 1988

European Studies

Steven Maurice Beaudoin, Biddeford, ME
B.A., Bates College, 1987
M.A., University of Maine, 1990

History

Master of Science

Peter N. Stearns
Head of the Department

Applied History

Amy Rosse deCamp, Pittsburgh, PA
B.A., Chatham College, 1987

** Sherie Renee Mershon, Pittsburgh, PA
B.A., William Smith College, 1988

Michelle Marie Paquette, Westport, NY
B.A., Mt. Holyoke College, 1989

Craig Robert Semsel, Shelton, CT
B.S., Northeastern University, 1989

Denise Marie Visconti, Waterford, NJ
B.S., Carnegie Mellon University, 1989

* As of August 21, 1990 **As of December 21, 1990

Philosophy

Master of Science

Teddy Seidenfeld
Head of the Department

Computational Linguistics

Anna Espunya-Prat, Olot, Catalonia
B.A., Universitat Autonoma de Barcelona, 1988

Prahlad Gupta, New Delhi, India
B.A., University of Delhi, India, 1980
M.B.A., University of Delhi, India, 1982

Young-Gie Min, Seoul, Korea
B.A., Seoul National University, 1986
M.A., Seoul National University, 1989

Wonchul Park, Seoul, Korea
B.A., Seoul National University, 1987
M.A., Seoul National University, 1989

Logic and Computation

Saverio Cittadini, Napoli, Italy
Laurea, Mathematics, Universita Degli Studi di Napoli, Italy, 1988

Psychology

Master of Science

David Klahr
Head of the Department

Kevin James Crowley, Champaign, IL
B.A., Swarthmore College, 1989

Daniel Yaron Kimberg, Philadelphia, PA
A.B., Princeton University, 1989

Marsha Carol Lovett, Easton, CT
A.B., Princeton University, 1989

Parastu S. Mehta, DeWitt, NY
B.A., Colgate University, 1989

Akira Miyake, Okayama, Japan
B.A., Osaka University of Foreign Studies, 1989

Takeshi Okada, Shimane, Japan
B.E., Hiroshima University, 1982
M.A., Hiroshima University, 1984

Paul J. Reber, Long Meadow, MA
B.S., University of Pennsylvania, 1988

Marcie Arden Wallace, Cooperstown, NY
B.A., Williams College, 1988

Statistics

Master of Science

John P. Lehoczky
Head of the Department

Scott Matthew Berry, St. Paul, MN
B.S., University of Minnesota, 1990

Petros Ioanni Hadjicostas, Larnaca, Cyprus
B.S., Carnegie Mellon University, 1990
M.S., Carnegie Mellon University, 1990

Tao Jiang, Leishan, China
B.S., Peking University, 1987
M.S., Peking University, 1990

Audris Mockus, Kaunas, Lithuania
Diploma, Moscow Physical-Technical Institute, 1988

Orrin R. Musser, West Sunbury, PA
B.A., Duke University, 1965

Gary Nan Tie, Melbourne, Victoria, Australia
B.S., Monash University, 1977
Ph.D., State University of New York at Buffalo, 1987

Shingo Oue, Tokyo, Japan
B.A., Hitotsubashi University, 1987
M.A., Hitotsubashi University, 1989

Nancy Lynne Paul, Somerville, NJ
B.A., Hamilton College, 1990

Lisa Meryl Shane, Rockville Centre, NY
S.B., Massachusetts Institute of Technology, 1989

Bayard Taylor Van Hecke, New York, NY
B.A., Tulane University, 1972

* Alyson Gabbard Wilson, Raleigh, NC
B.A., Rice University, 1989

Carnegie Institute of Technology

Paul P. Christiano
Dean of the College

Chemical Engineering

Master of Science

John L. Anderson
Head of the Department

Robert Lincoln Clay, Tracy, CA
B.S., University of Tennessee, 1980

* Jeffrey Louis Levy, Delran, NJ
B.S., University of Delaware, 1987

Mark Edward Thomas, Lewisburg, WV
B.S., West Virginia Institute of Technology, 1989

Colloids, Polymers and Surfaces

** Charles John Kozora, Indianola, PA
B.S., Pennsylvania State University, 1986

Sherri Furlong McCleary, Apollo, PA
B.S., Villa Maria College, 1987

Susan Utz McMonigal, Allison Park, PA
B.A., Northwestern University, 1986

** Anthony Charles Youlton, Pittsburgh, PA
B.S., University of Vermont, 1979

Civil Engineering

Master of Science

Richard G. Luthy
Head of the Department

Muhammad Ashraf Ali, Dhaka, Bangladesh
B.S., Bangladesh University of Engineering & Technology, 1988

** Shiem-Min Chen, Chia-Yi Hsien, Taiwan
B.S., National Taiwan University, 1986

** Walter Kevin Dodson, Malvern, PA
B.S., United States Military Academy, 1982

** John Everett Jaeger, Novato, CA
B.S., University of California, Davis, 1987

** Shyan-Ching Jang, Pingtung, Taiwan
B.S., National Taiwan University, 1986

Sung-Ho Joh, Seoul, Korea,
B.S., Seoul National University, 1985
M.S., Seoul National University, 1987

Igor Kaljevic, Banjaluka, Yugoslavia
B.S., University of Belgrade, 1986

Kathleen Mary Lagnese, Somers, NY
B.S., Lafayette College, 1985

Chang-Ho Lee, Seoul, Korea
B.S., Hanyang University, Seoul, 1984
M.S., Hanyang University, Seoul, 1989

* Menq-Juh Lee, Taichung, Taiwan
B.S., National Taiwan University, 1986

Ta-Chun Lin, Kaohsiung, Taiwan
B.S., National Cheng-Kung University, Tainan, Taiwan, 1985

Zhongbao Liu, Taiyuan, China
B.S., Taiyuan University of Technology, 1982

** Mauro Mangini, Genova, Italy
B.S., University of Genova, 1983

* Erin Roseen McGuiness, Amherst, NH
B.S., Marquette University, 1989

** Edward Michael Miller, Jefferson Boro, PA
B.S., Carnegie Mellon University, 1989

Anand Prabhakar Patwardhan, Bombay, India
B.S., Indian Institute of Technology, Bombay, 1987

Desha Pavlovic-Jaramaz, Split, Yugoslavia
B.S., University of Split, 1982

** Angelo Sgobbo, White Plains, NY
B.E., The Cooper Union, 1989

** Michael Slenska, Johnstown, PA
B.S., Carnegie Mellon University, 1989

* Tadaji Wakabayashi, Tochigi, Japan
B.S., Hokkaido University, 1980

Shigeru Yasu, Tokyo, Japan
B.S., Wasenda University, 1980

Electrical and Computer Engineering

Master of Science

Stephen W. Director
Head of the Department

** Matthieu Arnould, Paris, France
B.S., University of Paris VI, 1986

** Lawrence F. Arnstein, Birmingham, MI
B.S., Case Western University, 1985

Richard Scott Burton, Seattle, WA
B.S., University of Washington, 1989

Frans Martin Coetzee, Johannesburg, South Africa
B.Ing., Rand Afrikaans University, 1988

** Bryce Howard Cogswell, Santa Ana, CA
B.S., University of California, Irvine, 1986

** Douglas Edward Cool, Bel Air, MD
B.S., Carnegie Mellon University, 1989

Ray J. Divenuto, Selden, NY
B.S., Polytechnic Institute of New York, 1981

Binay J. George, Bangalore, Karnataka, India
B.S., University of Idaho, 1989

Matthew Wayne Gertz, Monroe, MI
B.S.E., University of Michigan, 1989

Karen G. Haines, Leucadia, CA
B.A., University of California, San Diego, 1985

Susan Carol Hartman, Bay Village, OH
B.S., Geneva College, 1989

** Charles Dean Hendrix III, South Charleston, WV
B.S., Clemson University, 1989

* Gary Allen Hildebrand, East Brunswick, NJ
B.Eng., Stevens Institute of Technology, 1988

Gregory P. House, Philadelphia, PA
B.S., Drexel University, 1989

* As of August 21, 1990 **As of December 21, 1990

* Donald Fitzgerald Hylton, Bridgeport, CT
B.S., Rensselaer Polytechnic Institute, 1988

** Anand Krishna Iyer, Toronto, Ontario, Canada
B.Eng., Carleton University, Ottawa, 1987

* Varkey L. James, Highland, IN
B.S., Purdue University, 1988

Amy An-Mei Lin, Portland, OR
B.S., Oregon State University, 1989

* Adam David Liss, Warren Township, NJ
B.S., Rutgers College of Engineering, 1988

* Patrick Lynn McCain, Lancaster, SC
B.S., Georgia Institute of Technology, 1983

** Peter Alexis McEwen, Arlington, MA
B.S., Massachusetts Institute of Technology, 1986

Edward Michael Miller, Pittsburgh, PA
B.S., University of Pittsburgh, 1985

** Katsufumi Nakamura, Yokohama, Japan
B.S., Carnegie Mellon University, 1989

* Robert B. O'Rourke, Poughkeepsie, NY
B.S., Syracuse University, 1988

* Corinne Alison Orts, Colerain, OH
B.S., Cornell University, 1988

** Gregory Scott Palmer, Winchester, VA
B.S., University of Virginia, 1989

** Christiaan Jos Jan Paredis, Hasselt, Belgium
B.S., Katholieke Universiteit Leuven, 1988

** Vivek Raghavan, New Delhi, India
B.Tech., Indian Institute of Technology, Delhi, 1989

Andrew Renema II, Alameda, CA
B.S., University of California, Berkeley, 1988

** Henry Will Schneiderman, Storrs, CT
B.S., Brown University, 1988

* Wei Shi, Jiangsu, China
B.S., Fudan University, China, 1987

Christopher Andrew Stephens, Waynesville, NC
B.S., Carnegie Mellon University, 1987

** Jeff T. Stringer, Pittsburgh, PA
B.S., Case Western Reserve University, 1986

* Benjamin Mark Vos, Pella, IA
B.S., DeVry Institute of Technology, 1986

Charles H. Winstead, Lewisburg, PA
B.S., Lafayette College, 1989

Paul Whitman Woodford, Laurel, MD
B.S., Bucknell University, 1989

** Eyal Zimran, Jerusalem, Israel
B.S., Israel Institute of Technology, 1986

Engineering and Public Policy

Master of Science

M. Granger Morgan
Head of the Department

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Mechanical Engineering

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Accounting

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Algorithm, Combinatorics and Optimization

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B.Tech., Indian Institute of Technology, Delhi, 1987
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Economics

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Finance

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Licence, Universite de Liege, 1988

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Marketing

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Information Systems

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Organizational Behavior

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Political Economy

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School of Urban and Public Affairs

Alfred Blumstein
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Master of Arts Management

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B.F.A., Carnegie Mellon University, 1990

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Master of Science

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B.S., University of Pittsburgh, 1980
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B.S., Sarjana Pertanian I.P.B., 1982

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Candidates for the Doctor's Degree

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Major: Architecture
Formulating Spatial Layout as a Disjunctive Constraint Satisfaction Problem
M.Arch., Middle East Technical University, 1979

** Chiu Shui Chan, Taishan, Guang Dong, China
Major: Architecture
Psychology of Style in Design
B.A., College of Chinese Culture, 1974
M.Arch., University of Minnesota, 1982

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Major: Architecture
Office Investment Decision-Making and Building Performance
B.S., National Cheng Kung University, 1982
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Vector Field Representation for Multiple Performance Variables Evaluation
B.Arch., Laval University, 1978
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ABLOOS: An Evolving Hierarchical Design Framework
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B.S., Kent State University, 1968
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M.A., Carnegie Mellon University, 1969
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M.A., Temple University, 1971

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Asian Indians in New York City: Patterns of Growth and Diversification, c. 1965-1990
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Conflict in the Collaborative Planning of Co-Authors: How Substantive Conflict, Representation of Task, and Dominance Relate to High-Quality Documents
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B.S., Universite Libre De Bruxelles, 1982
M.S., Universite Libre De Bruxelles, 1986
M.S., Carnegie Mellon University, 1989

** Jonathan David Cohen, New York, NY
Major: Psychology
Attention and the Processing of Context: A Parallel Distributed Processing Approach to Normal and Disordered Cognition
B.A., Yale University, 1977
M.D., University of Pennsylvania, 1983
M.A., Carnegie Mellon University, 1988

* Ye Ding, Beijing, China
Major: Statistics
Capture-Recapture Census With Uncertain Matching
B.S., Peking University, Beijing, 1985
M.S., Carnegie Mellon University, 1986

** Ruth Etzioni, Pittsburgh, PA
Major: Statistics
Bayesian Group-Sequential Sampling With Application Tax Auditing
B.S., University of Capetown, 1985
M.S., Carnegie Mellon University, 1987

Thomas Albert Finholt, Northfield, MN
Major: Social and Decision Sciences
Accessing Organizational Expertise Through Compute Mediated Communication
B.A., Swarthmore College, 1983

Carol Anne Fisher, Needham, MA
Major: Psychology
Protocol Analyst's Workbench: Design and Evaluatio Computer Aided Protocol Analysis
B.A., Framingham State College, 1984
M.S., Carnegie Mellon University, 1985

Edward Albert Fletcher Gibson, Toronto, Ontario, Canada
Major: Computational Linguistics
A Computational Theory of Human Sentence Processi
B.S., Queen's University, 1985
M.Phil., Cambridge University, 1986

* Stuart Greene, New York, NY
Major: Rhetoric
Writing from Sources: Authority in Text and Task
B.A., State University of New York, 1978
M.A., State University of New York, 1981

* Lucille E. Horgan, Chicago, IL
Major: Applied History
Innovation of the Department of Defense – 1970 to 19
B.A., University of Houston, 1984
M.A., University of Cincinnati, 1987

*As of August 21, 1990 **As of December 21, 19

Frederick Norman Kazman, Toronto, Ontario, Canada
Major: Computational Linguistics
The Induction of the Lexicon and the Early Stages of Grammar
B.A., University of Waterloo, 1981
M.A., York University, 1982
M.Math., University of Waterloo, 1986

* Timothy I. Kelly, Pittsburgh, PA
Major: History
The Transformation of American Catholicism: The Pittsburgh Laity and the Second Vatican Council, 1950-1980
B.A., Rutgers University, 1982
M.A., University of Texas at Austin, 1984

** Kenneth Richard Koedinger, Milwaukee, WI
Major: Psychology
Tutoring Concepts, Percepts, and Rules in Geometry Problem Solving
B.S., University of Wisconsin, Madison, 1984
M.S., University of Wisconsin, Madison, 1986

Linda Levine, Pittsburgh, PA
Major: Rhetoric
The Argument on Language and the Language of Argument: Kenneth Burke and Wilbur Samuel Howell
B.A., Concordia University, 1973
M.A., Dalhousie University, 1980

Xiao-Bing Li, Beijing, China
Major: Applied History/Social Sciences
Understanding Chinese Intentions: Eisenhower, Communication and Misperception, and Origins of 1954-55 Offshore Islands Crisis
B.A., Nankai University, 1982
M.A., Carnegie Mellon University, 1985

David William Lonich, Charleroi, PA
Major: Applied History/Social Science
Metropolitics in Allegheny County: The Evolution of a Regional Government
B.S., California State University, 1971
M.A., California State University, 1974

Eric Harold Nyberg III, Marblehead, MA
Major: Computational Linguistics
A Non-Deterministic Success-Driven Model of Parameter Setting in Language Acquisition
B.A., Boston University, 1983

** Giovanni Parmigiani, Milano, Italy
Major: Statistics
Optimal Scheduling of Inspections With an Application to Medical Screening Tests
B.S., Bocconi University, Milano, 1984
M.S., Carnegie Mellon University, 1987

Wayne Campbell Peck, Pittsburgh, PA
Major: Rhetoric
Community Literacy: Composing for Action
B.A., Denison University, 1974
M.Div., Harvard Divinity School, 1977
M.A., Carnegie Mellon University, 1986

* Mario Peruggia, Milano, Italy
Major: Statistics
Iterated Function Systems and the Propagation of Rounding Errors
B.S., State University of Milan, 1983
M.S., Carnegie Mellon University, 1986

** Harold Asbury Scott Jr., Atlanta, GA
Major: Applied History/Social Sciences
Covert Action as an Instrument of Foreign Policy: U.S. Intervention in Iran and Guatemala
B.A., Clark College, 1983
M.A., Carnegie Mellon University, 1984

Emile J. Servan-Schreiber, Paris, France
Major: Psychology
The Competitive Chunking Theory: Models of Perception Learning, and Memory
B.S., Carnegie Mellon University, 1985
M.S., Carnegie Mellon University, 1989

* Steven Elliott Tripp, Oakland, CA
Major: History
Restive Days: Race and Class Relations in Lynchburg, Virginia, 1858-1872
B.A., University of California, Berkeley, 1979
M.A., University of California, Davis, 1985

David L. Wallace, Homer City, PA
Major: Rhetoric
From Intention to Text: Developing, Implementing, and Judging Intentions for Writing
B.A., St. Paul Bible School, 1982
M.A., Columbia Graduate School, 1983
M.A., Indiana University of Pennsylvania, 1987

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Major: Statistics
Topics in Team Decision Theory
B.S., Beijing University, 1985
M.S., Carnegie Mellon University, 1987

** Robert Anthony Ward, Austin, TX
Major: Psychology
The Representation of Visual Features and the Binding Problem: Feature Binding in Parallel Networks
B.A., Austin College, 1984
M.S., Carnegie Mellon University, 1987

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Major: Metallurgical Engineering and Materials Science
Mathematical and Physical Modeling of Fluid Flow and Mass Transfer in Continuous Steelmaking
B.S., Carnegie Mellon University, 1985
M.E., Carnegie Mellon University, 1988

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Major: Metallurgical Engineering and Materials Science
Coarsening of Elastically Interacting, Coherent Precipitates
B.Tech., Banaras Hindu University, 1985

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Major: Electrical and Computer Engineering
Acoustical and Environmental Robustness in Automatic Speech Recognition
B.S., Polytechnic University of Madrid, 1985
M.S., Rice University, 1987

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Major: Electrical and Computer Engineering
Input/Output of Performance Modeling and Interface Synthesis of Concurrently Communicating Systems
B.S., Madras University, 1982
M.S., Boston University, 1985

* Cynthia J. Atman, Pittsburgh, PA
Major: Engineering and Public Policy
Network Structures as a Foundation for Risk Communication: An Investigation of Structure and Format Differences
B.S., West Virginia University, 1979
M.S., Ohio State University, 1983

John Evan Bares, Cleveland, OH
Major: Civil Engineering
Configuration of Autonomous Walkers for Extreme Terrain
B.S., Carnegie Mellon University, 1985
M.S., Carnegie Mellon University, 1987

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Major: Electrical and Computer Engineering
Troubleshooting: Device and Task Representations
B.S., Birla Institute of Technology and Science, India, 1983
M.S., University of Massachusetts, Amherst, 1985

John Edward Borrazzo, Nanuet, NY
Major: Civil Engineering
Uptake of Volatile Organic Compounds on Fibrous Surfaces in the Indoor Environment
B.A., Harvard University, 1980
M.S., Carnegie Mellon University, 1990

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Major: Electrical and Computer Engineering
Architecture Synthesis of High-Performance Application-Specific Processors
B.S., Instituto Technologico de Aeronautica, 1978
M.S., University of Campinas, 1984

* Marko Peter Chew, Lenexa, KS
Major: Electrical and Computer Engineering
Utilizing Logic Information in Statistical Timing Simulation
B.S., Cornell University, 1983
M.S., Carnegie Mellon University, 1987

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Major: Electrical and Computer Engineering
Tangential Vector Finite Elements for Semiconductor Device Simulation
B.S., National Chen-Kung University, 1982
M.S., National Tsing-Hua University, 1984

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Major: Mechanical Engineering
A Unified Motion Planning Approach for Redundant and Non-Redundant Manipulators with Actuator Constraints
B.S., University of Texas at Arlington, 1984
M.S., University of Texas at Arlington, 1986

* Michelle Annette Clauss, Murrysville, PA
Major: Chemical Engineering - Bioengineering
Heterogeneous Transport of Antibodies in Normal and Neoplastic Tissues
B.S., Grove City College, 1983

** James Michael Connelly, Sugarloaf, PA
Major: Electrical and Computer Engineering
Designing Filters for an Acousto-Optic Based Two-Dimensional Correlator
B.S., Pennsylvania State University, 1986
M.S., Carnegie Mellon University, 1988

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Major: Electrical and Computer Engineering
On the Prediction of Fault Behavior Based on Workload
B.S., Wilkes College, 1984
M.S., Carnegie Mellon University, 1985

*As of August 21, 1990 **As of December 21, 1990

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Major: Mechanical Engineering
An Investigation of Postural and Voluntary Human Arm Impedance Control
B.S., Princeton University, 1980
M.E., Carnegie Mellon University, 1987

** Mark Calvin Fair, Butler, PA
Major: Chemical Engineering
Electrophoresis of Nonspherical and Nonuniformly Charged Colloidal Particles
B.S., Grove City College, 1985

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Major: Civil Engineering
An Integrated Knowledge-Based Finite Element Analysis System
B.S., Chung Yuan University, 1966
M.S., University of Ottawa, 1970

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Major: Electrical and Computer Engineering
Statistical Integrated Circuit Design
B.S., Technion, Israel, 1983
M.S., Technion, Israel, 1987

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Major: Electrical and Computer Engineering - Bioengineering
Continuous Class Pattern Recognition and Image Processing for Lymph Node Cancer Diagnosis
B.S., Cornell University, 1981
M.S., North Carolina State University, 1984

Abdennaceur Frej, Mahres, Tunisia
Major: Chemical Engineering
Study of the Hindered Brownian Motion of a Single Sphere is a Non-Uniform Force Field Using Total Internal Reflection Microscopy
B.S., University of Akron, 1982
M.S., University of Akron, 1985

Rajit Gadh, New Dehli, India
Major: Mechanical Engineering
Abstracting Shape Features in Design for Automated Manufacturability Evaluation
B.Tech., Indian Institute of Technology, Kanpur, 1984
M.S., Cornell University, 1986

David John Garrod, Davis, CA
Major: Electrical and Computer Engineering
Device-level Routing of Analog Cells in ANAGRAM II
B.S., University of California, Davis, 1985
M.S., Carnegie Mellon University, 1987

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Major: Metallurgical Engineering and Materials Science
Thermal Instabilities in Polycrystalline Thin Films
B.S., Ecole Nationale Superieure D'Electrochimie et D'Electrometallurgie de Grenoble, 1986
M.E., Carnegie Mellon University, 1988

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Major: Electrical and Computer Engineering - Bioengineering
Modeling the 3-D Imaging Properties of the Fluorescence Light Microscope
B.S., Queens University, 1985
M.S., University of Wisconsin, Madison, 1986

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Major: Civil Engineering
A Model of Pavement Surfaces
B.S., University of Waterloo, 1985
M.S., Carnegie Mellon University, 1986

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Major: Chemical Engineering
A Study of Micromixing in Free and Confined Cross Flow Jets
B.S., Brigham Young University, 1986
M.S., Brigham Young University, 1988

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Major: Electrical and Computer Engineering
Design of Distortion-Invariant Linear Phase Response Correlations Filters and Filter Banks
B.S., University of Nebraska, 1979
M.S., Syracuse University, 1987

Herbert Lei Ho, Concord, MA
Major: Metallurgical Engineering and Materials Science
The Study of Stresses and Epitaxial Phase Transformations of Nickel Silicides on {001} and {111} Silicon Substrates
B.S., Carnegie Mellon University, 1984
M.S., Northwestern University, 1986

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Major: Electrical and Computer Engineering
Visualizing Relativistic Effects
B.S., National Taiwan University, 1980
M.S., Worcester Polytechnic Institute, 1984

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Major: Electrical and Computer Engineering
Pade Approximations of Linear(ized) Circuit Responses
B.S., Jiao Tong University, 1985
M.S., Carnegie Mellon University, 1987

* Allen Antonio Hughes, King George, VA
Major: Engineering and Public Policy
The Value of Information Characterized by Disaggregated Attributes of a Medical Device Risk Management System
B.S., University of Virginia, 1975
M.S., Carnegie Mellon University, 1981

** Enrique Gabriel Ibarra-Anaya, Mexico City D.F., Mexico
Major: Civil Engineering
A Framework for Customizable Knowledge-Based Expert Systems
B.S., National Autonomous University of Mexico, 1986
M.S., Carnegie Mellon University, 1989

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Major: Engineering and Public Policy
Building a Better Mouse: Examination of Product Development Processes Product Design Quality in the Cursor Control Industry
B.S., Grove City College, 1979
M.S., University of Pittsburgh, 1983
M.S., Carnegie Mellon University, 1987

Yasuhisa Kanai, Tokyo, Japan
Major: Electrical and Computer Engineering
Simulation of Magnetic Aftereffect in Particulate Recording Media
B.S., Georgia Institute of Technology, 1983
M.S., Georgia Institute of Technology, 1985

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Major: Electrical and Computer Engineering
Statistical Diagnosis of IC Process Faults
B.S., Carnegie Mellon University, 1986
M.S., Carnegie Mellon University, 1988

** David Brian Kirk, Tinton Falls, NJ
Major: Electrical and Computer Engineering
Predictable Cashe Design for Real-Time Systems
B.S., University of Notre Dame, 1979
M.S., Syracuse University, 1983

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Major: Electrical and Computer Engineering
High Resolution Magneto-optic Observation of High Frequency Activity in Magnetic Recording Heads
B.A., Hope College, 1982
B.S., Hope College, 1982
M.S., University of Cincinnati, 1986

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Major: Civil Engineering
Process Zone Development in Cementitious Materials
Diploma, University of Belgrade, 1986
M.Sc., Imperial College, London, 1987

* David Chenhsiang Lee, Wilbraham, MA
Major: Electrical and Computer Engineering
Functional Test Generation for Pipelined Computer Implementations
B.S., National Taiwan University, 1979
M.S., Carnegie Mellon University, 1983

** Jeffery Scott Logsdon, Charleston, WV
Major: Chemical Engineering
Efficient Determination of Optimal Control Profiles for Differential Algebraic Systems
B.S., West Virginia Institute of Technology, 1979
M.E., West Virginia Institute of Technology, 1986

** Bao-Min Ma, Taipei, Taiwan
Major: Metallurgical Engineering and Materials Science
Spin Reorientation Phenomena in Selected Rare Earth — Transition Metal Intermetallics
B.S., Fu-jen Catholic University, 1974
M.S., University of Pennsylvania, 1979

Joanna Marie Markussen, Carnegie, PA
Major: Chemical Engineering
An Experimental Investigation of the Mass-Transfer Mechanisms in Sulfur Dioxide Absorption in Lime Solutions
B.S., Mary Washington College, 1978
M.S., Carnegie Mellon University, 1980

Scott Morris Maurer, Springfield, VA
Major: Chemical Engineering
Structural and Acidic Properties of Niobia-Silica and Niobia-Alumina Aerogels
B.S., Lehigh University, 1986
M.S., Carnegie Mellon University, 1988

Ajay Krishnalal Modi, Rajkot, Gujarat, India
Major: Chemical Engineering
On the Development of an Engineering Design System Within an Integrated Problem-Solving and Learning Architecture
B.S., Imperial College University of London, 1983
M.S., Northwestern University, 1986

Claudia Lage Nassaralla, Santos Dumont, Brazil
Major: Metallurgical Engineering and Materials Science
Dephosphorization of Fe and Fe-Cr Alloys by Novel Refining Method
B.S., Universidade Federal De Minas Gerais, 1985

Shree K. Nayar, Trivandrum, Kerala, India
Major: Electrical and Computer Engineering
Shape Recovery Using Physical Models of Reflection and Interreflection
B.S., Birla Institute of Technology, 1984
M.S., North Carolina State University, 1986

Tuyen Van Nguyen, Saigon, Vietnam
Major: Electrical and Computer Engineering
Transient Sensitivity Computation and Applications
B.S., University of Arkansas, 1985
M.S., University of Arkansas, 1987

Lyman J. Petrosky, Latrobe, PA
Major: Civil Engineering
Heuristic Methods for Optimal Trajectory Planning of Robotic Manipulators
B.S., Carnegie Mellon University, 1977
M.S., Carnegie Mellon University, 1985

* James Edward Quinlan, Philadelphia, PA
Major: Electrical and Computer Engineering
A Method of Performance Characterization for Parallel Programs on Multicomputers
B.S., Carnegie Mellon University, 1983
M.S., Carnegie Mellon University, 1985

Marco Racanelli, Edison, NJ
Major: Electrical and Computer Engineering
Si and SiGe Epitaxy and Devices by Ultra-High-Vacuum Chemical-Vapor-Deposition
B.S., Lehigh University, 1987
M.S., Carnegie Mellon University, 1989

Manohar Rama Rao, Bangalore, India
Major: Electrical and Computer Engineering
Performance Efficient Parallel Programming
B.Tech., Indian Institute of Technology, Bombay, 1985
M.S., Carnegie Mellon University, 1987

David Palmer Reed, Boulder, CO
Major: Engineering and Public Policy
An Engineering, Economic and Public Policy Analysis of Integrated Broadband Networks in Subscriber Loop: Interdisciplinary Implications for the Telephone Company/Cable Television Cross Ownership Debate
B.S., Colorado State University, 1985
M.S., Carnegie Mellon University, 1988

Yoram Reich, Ramat-Gan, Israel
Major: Civil Engineering
Building and Improving Design Systems: A Machine Learning Approach
B.S., Tel-Aviv University, 1980
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Major: Electrical and Computer Engineering
Automatic Generation of Systolic Programs from Nested Loops
E.Eng., Instituto Tecnologico de Aeronautica, 1979
M.S., Instituto Tecnologico de Aeronautica, 1983

Dionysis Rigopoulos, Athens, Greece
Major: Civil Engineering
Modeling Building Structures for Design
B.S., National Technical University of Athens, 1980
M.S., Carnegie Mellon University, 1984

William Anthony Rozzi, McKeesport, PA
Major: Electrical and Computer Engineering
Speaker Adaptation in Continuous Speech Recognition via Estimation of Correlated Mean Vectors
B.S., Carnegie Mellon University, 1983
M.S., Carnegie Mellon University, 1984

Ronaldo Santos Sampaio, Uberlandia, Brazil
Major: Metallurgical Engineering and Materials Science
Coal Devolatilization in Smelting Slags
B.S., Universidade Federal De Minas Gerais, 1977
M.S., Universidade Federal De Minas Gerais, 1980
M.S., Carnegie Mellon University, 1985

Michael Allen Schuette, Saginaw, MI
Major: Electrical and Computer Engineering
Exploitation of Instruction-Level Parallelism for Detection of Processor Execution Errors
B.S., Michigan State University, 1982
M.S., Carnegie Mellon University, 1984

** David Wayne Snyder, Export, PA
Major: Chemical Engineering
Metalorganic Chemical Vapor Deposition of Cadmium Telluride
B.S., Pennsylvania State University, 1986

David Lindsay Springer, Pittsburgh, PA
Major: Electrical and Computer Engineering
Coloring and Clique Partitioning in Data Path Allocation
B.S., Carnegie Mellon University, 1984
M.S., Carnegie Mellon University, 1986

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Major: Electrical and Computer Engineering
Aperiodic Task Scheduling for Real-Time Systems
B.S., Rice University, 1983
M.S., Carnegie Mellon University, 1986

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Major: Electrical and Computer Engineering
Towards a System Theory for Interconnected Condition/Event Systems
B.Tech., Indian Institute of Technology, 1985
M.S., Carnegie Mellon University, 1987

Anthony Kendall Stamper, Hartford, CT
Major: Electrical and Computer Engineering
Superconducting $YBa_2Cu_3O_{7-x}$ Thin Films and Thin Film Devices
B.S., University of Connecticut, 1987
M.S., Carnegie Mellon University, 1988

Alexander Derek Stein, Larchmont, NY
Major: Electrical and Computer Engineering
A Digital Transient Simulation Strategy for Integrated Circuits
A.B., Dartmouth College, 1983
M.S., Thayer School, Dartmouth College, 1985

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Major: Chemical Engineering
Fog Formation in a Turbulent Jet
B.S., Rice University, 1985

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Major: Metallurgical Engineering and Materials Science
β Phase Decomposition in Ti-Al-Nb Alloys
B.S., Carnegie Mellon University, 1977
M.S., Carnegie Mellon University, 1979

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A Model and Data Based Analysis of Longitudinal Surface Cracking in the Continuous Casting of Middle Carbon Steel Slabs
B.S., Michigan Technological University, 1984
M.E., Carnegie Mellon University, 1987

** Brian Andrew Telfer, Clinton, NY
Major: Electrical and Computer Engineering
Optical Associative Processors
B.S., Virginia Polytechnic Institute and State University, 1985
M.S., Carnegie Mellon University, 1987

** Christopher Morris Wolff, Worthington, OH
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The Analysis and Simulation of Delta-Sigma Modulators
B.S., University of Rochester, 1985
M.S., Carnegie Mellon University, 1987

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Defect Control in Callium Arsenide for Improved Device Performance: Solar Cell Applications
B.A., Cambridge University, 1986
M.S., Carnegie Mellon University, 1987

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Major: Engineering and Public Policy
Electronic Dissemination of Scholarly Journals: An Economic and Technical Analysis
B.S., University of Illinois at Urbana-Champaign, 1981
M.S., Carnegie Mellon University, 1988

** Weiguang Zhang, Beijing, China
Major: Civil Engineering
Chunking Structural Design Knowledge as Design Prototypes
B.S., Beijing Institute of Civil Engr. & Architecture, 1982
M.S., Carnegie Mellon University, 1986

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Major: Mechanical Engineering
The Effect of Plasma Injection on the No_x Control of Pulverized Coal Combustors
B.S., Nanjing Aeronautical Institute, China, 1982
M.S., Nanjing Aeronautical Institute, China, 1984

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Ground States of Non-Convex One-Dimensional Systems with Competing Interactions
B.S., Honors Tutorial College, Ohio University, 1985
M.S., Carnegie Mellon University, 1987

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Major: Chemistry
Cyclic and Polycyclic Stannanes of Classical and Non-Classical Structure
B.S., Allegheny College, 1980
M.A., Indiana University of Pennsylvania, 1986
M.S., Carnegie Mellon University, 1986

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Major: Chemistry/Biochemistry
NMR Studies of the Tissue-Type Plasminogen Activator Kringle 2 Domain
B.S., Korea University, Seoul, 1980
M.S., Korea University, Seoul, 1982
M.S., Carnegie Mellon University, 1986

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Major: Biological Sciences
Mammalian Cell Lines Defective in the Regulation of Endocytic Acidification and Receptor Recycling
B.S., Carnegie Mellon University, 1985

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Major: Mathematics
A Computational Study of the Set Covering Problem
B.S., University Catolica Del Peru, 1981
M.A.M., Carnegie Mellon University, 1984

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Major: Physics
Transfer Matrix Method Studies of Quasiperiodic Structures
B.S., Zhejiang University, 1984
M.S., Carnegie Mellon University, 1986

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Major: Physics
Strangeness Productions in Relativistic Nucleus-Nucleus Collisions
B.S., Xavier University, 1983
M.S., Carnegie Mellon University, 1985

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Major: Chemistry
Spectroscopic Studies of Lanthanide Porphyrin Sandwich Compounds: Effects of Strong ΠΠ Interaction
B.S., Simon Fraser University, 1985
M.S., Carnegie Mellon University, 1987

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Major: Physics
Production Correlations of Hadronically Produced Charmed Particles
B.A., Rutgers University, 1983
M.S., Carnegie Mellon University, 1985

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Major: Physics
A Combined Thermodynamic and X-ray Scattering Study of the Kr/Gr System in the Multilayer Region
B.S., Carnegie Mellon University, 1983
M.S., Carnegie Mellon University, 1986

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Major: Physics/Biophysics
Macromolecular Diffusion and Structural Modulation in Actin-Based Reconstituted Matrices
B.S., Jilin University, China, 1984
M.S., Carnegie Mellon University, 1986

* Xiaohua Hu, Beijing, China
Major: Mathematics
Covolume Techniques for Anistropic Media/Application of Spectral Methods to a Cahn-Hilliard Model of Phase Transition
B.S., University of Science and Technology of China, 1982
M.S., University of Science and Technology of China, 1984

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Major: Chemistry
Optical Third Harmonic Generation from Isotropic Multilayer Media
B.S., University of Wisconsin, Madison, 1985

** Hwan Kyu Kim, Uljugan Kyung Nam, Korea
Major: Chemistry
Sonochemical Synthesis of Well-Defined Polysilanes
B.S., University of Ulsan, 1980
M.S., Korea Advanced Institute, 1982

Xiaoyong Li, Linshui, Sichuan, China
Major: Biological Sciences
Escherichia coli RNA Polymerase-Promoter Complexes Formed During Transcription Initiation
B.S., Lanzhou University, China, 1983

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Mechanistic Study of Living Cationic Polymerization of Alkenes
B.S., National Taiwan University, 1981
M.S., University of Pittsburgh, 1985

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A Study of Ribosome Assembly in Saccharomyces cerevisiae: The Roles of Ribosomal Proteins L16 and rp59
B.S., Colorado State University, 1985

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Major: Mathematics
A Mathematical Theory of Cold Drawing
B.S., Harvey Mudd College, 1985

William Richard Nichols, Pittsburgh, PA
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Charm Production in 800 GeV/c Proton-Emulsion Interactions
B.S., Carnegie Mellon University, 1982
M.S., Carnegie Mellon University, 1984

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Major: Biological Sciences
Quantification of Metabolic Fluxes in Normal and Sickle Cell Erythrocytes Using Multinuclear Magnetic Resonance Spectroscopy
B.S., Colorado State University, 1985

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Major: Physics
Determination of the Number of Neutrino Generations
B.Sc., Fudan University, 1984
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Major: Chemistry/Biophysics
Modelling Electron Transfer in Peptides and Proteins
B.S., Pennsylvania State University, 1986

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Mobile Phase Boundaries in Elastic Media
B.S., University of Strathclyde, 1985
M.S., Carnegie Mellon University, 1987

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Major: Biological Sciences
Genetic Analysis of the Functions of the Adenovirus E1 Proteins in Oncogenic Transformation and Lytic Infection
B.A., Oxford University, United Kingdom, 1980

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Genetic and Biochemical Analysis of Expression and Function of Two Yeast Ribosomal Proteins: L16 and L1
B.S., National Taiwan University, 1983
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Major: Applied Physics
Real and Artificial Forces in the Control of Manipulators: Theory and Experiments
B.S., Loyola College, 1984
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Synthetic Strategies for the Preparation of New Porphyrin Architectures
B.S., Indiana University of Pennsylvania, 1984

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Prospects in Extended Inflation
B.S., Tsinghua University, 1985
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Major: Chemistry
Investigation of the Initial Steps of Asparagine-Linked Glycosylation
B.S., University of South Carolina, 1986

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Scheduling and Resource Management Techniques for Multiprocessors
M.A., University of Pennsylvania, 1983
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Analysis and Planning of Planar Manipulation Tasks
B.S., University of Denver, 1983

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Scheduling Dependent Real-Time Activities
B.S., Massachusetts Institute of Technology, 1978
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Concurrent, Atomic Garbage Collection
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A Language for Higher-Order Explanation-Based Learning
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M.S., Carnegie Mellon University, 1988

Oren Willi Etzioni, New York, NY
Major: Computer Science
A Structural Theory of Explanation-Based Learning
B.A., Harvard University, 1986
M.S., Carnegie Mellon University, 1988

** Gordon James Goetsch, St. Louis, MO
Major: Computer Science
Maximization of Mutual Information in a Context Sensitive Neural Network
B.S., Rice University, 1982
M.S., Carnegie Mellon University, 1984

** Kenneth Yigael Goldberg, Bethlehem, PA
Major: Computer Science
Stochastic Plans for Robotic Manipulation
B.S.E., University of Pennsylvania, 1984
M.S., Carnegie Mellon University, 1988

Klaus Peter Gross, Stockton, CA
Major: Computer Science
Concept Acquisition Through Attribute Evolution and Experimentation
B.S., University of the Pacific, 1982
M.S., Carnegie Mellon University, 1989

Alexander Georg Hauptmann, Munich, Germany
Major: Computer Science
Meaning from Structure in Natural Language Interfaces
M.A., Johns Hopkins University, 1982
Diploma, Technische Universitat, Berlin, 1984

Peter Thomas Highnam, Bedfordshire, England
Major: Computer Science
Systems and Programming Issues in the Design and Use of a SIMD Linear for Image Processing
B.Sc., Manchester University, 1976
M.S., University of Bristol, 1981
M.S., Carnegie Mellon University, 1986

Craig Alan Knoblock, Syracuse, NY
Major: Computer Science
Automatically Generating Abstractions for Problem Solving
B.S., Syracuse University, 1984
M.S., Carnegie Mellon University, 1988

Richard Allen Lerner, Metuchen, NJ
Major: Computer Science
Specifying Objects of Concurrent Systems
B.S., University of Michigan, 1982

Steven James Nowlan, Burlington, Ontario, Canada
Major: Computer Science
Soft Competitive Adaptation: Neural Network Learning Algorithms Based on Fitting Statistical Mixtures
B.A.Sc., University of Waterloo, 1985

Marko Petkovsek, Ljubljana, Slovenia, Yugoslavia
Major: Computer Science
Finding Closed-Form Solutions of Difference Equations by Symbolic Methods
B.S., University of Ljubljana, 1978
M.S., University of Ljubljana, 1986

Harry William Printz, Denver, CO
Major: Computer Science
Automatic Mapping of Large Signal Processing Systems to a Parallel Machine
M.A., Harvard University, 1978
B.A., University of Oxford, 1980
M.S., Carnegie Mellon University, 1987

Dean Harris Rubine, New York, NY
Major: Computer Science
The Automatic Recognition of Gestures
M.S., Massachusetts Institute of Technology, 1982

Norman Michel Sadeh-Koniecpol, Brussels, Belgium
Major: Computer Science
Look-Ahead Techniques for Micro-Opportunistic Job Shop Scheduling
Ingenieur, Ecole Polytech. de L'Universite Libre De Bruxelles, 1985
M.S., University of Southern California, 1986

** David Servan-Schreiber, Paris, France
Major: Cognitive Science in Medicine
From Physiology to Behavior: Computational Models of Catecholamine Modulation of Information Processing
M.D., Laval University, 1984
M.S., Carnegie Mellon University, 1989

Olin Grigsby Shivers, Atlanta, GA
Major: Computer Science
Control Flow Analysis of High Order Languages
B.S., Yale University, 1983

Milind Shashikant Tambe, Bombay, India
Major: Computer Science
Eliminating Combinatorics from Production Match
M.S., Birla Institute of Technology and Science, 1986

Ming Tan, Shanghai, China
Major: Computer Science
Cost-Sensitive Robot Learning
B.S., Shanghai Jioa Tong University, 1982
M.S., University of Pittsburgh, 1985
M.S., Carnegie Mellon University, 1988

Raúl Eduardo Valdés-Pérez, Chicago, IL
Major: Computer Science
Machine Discovery of Chemical Reaction Pathways
B.S., University of Illinois at Chicago Circle, 1980
M.S., University of Illinois at Chicago Circle, 1982

Blake Darryl Ward, Oxbow, Saskatchewan, Canada
Major: Computer Science
Toward an ITS for Theory-based Representations
B.S., University of Saskatchewan, 1983
M.S., Carnegie Mellon University, 1986

Joseph Skeffington Wholey III, Arlington, VA
Major: Computer Science
Automatic Data Mapping for Distributed-Memory Parallel Computers
B.S., Carnegie Mellon University, 1984
M.S., Carnegie Mellon University, 1989

*As of August 21, 1990 **As of December 21, 1990

Robotics

Takeo Kanade
Director of the Ph.D. Program

Doctor of Philosophy

* In So Kweon, Andong, Kyungbuk, Korea
Major: Robotics
Modeling Rugged Terrain by Mobile Robots with Multiple Sensors
B.S., Seoul National University, 1981
M.E., Seoul National University, 1983
M.S., Carnegie Mellon University, 1987

Graduate School of Industrial Administration

Dennis N. Epple
Acting Dean of the School

Doctor of Philosophy

Subramanian Balachander, Madras, India
Major: Industrial Administration (Marketing)
On the Strategic Impact of Product Unavailability in Marketing Channels of Distribution
B.Tech., Indian Institute of Technology, Madras, 1979
M.B.A., Indian Institute of Management, Calcutta, 1983

** Ravi Bansal, New Delhi, India
Major: Economics
Can Non-Separabilities Explain Exchange Rate Movements and Risk-Premia?
B.A., University of Delhi, India, 1982
P.G.D.M., University of Delhi, India, 1985

** Anitesh Barua, Bangalore, Karnataka, India
Major: Industrial Administration (Information Systems)
Three Studies on the Economics of Information Technologies: Assessing Business Value, Strategic Impacts and Information Systems Design
B.E., Jadaypur University, Calcutta, 1984
M.S., Carnegie Mellon University, 1987

Wouter Johannes denHaan, Spijkenisse, The Netherlands
Major: Economics
The Term Structure of Interest Rates in Real and Monetary Production Economics
B.S., Erasmus University, Rotterdam, 1982
M.S., Erasmus University, Rotterdam, 1986
M.S., Carnegie Mellon University, 1988

Zivan Forshner, Haifa, Israel
Major: Economics
Self-Enforced Mechanisms in Dynamic Economics With Incomplete Information
B.A., Haifa University, 1984
M.S., Technion - Israel Institute of Technology, 1986
M.S., Carnegie Mellon University, 1988

Susanne Julie Lohmann, Bremen, West Germany
Major: Economics, Industrial Administration (Political Economy)
Three Essays on Commitment Problems
M.S., University of Bonn, 1986
M.S., Carnegie Mellon University, 1988

** Purushottaman Nandakumar, Trivandrum, Kerala, India
Major: Industrial Administration (Manufacturing and Operations Systems)
Essays on Perishable Inventories and Component Standardization
B.Tech., Indian Institute of Technology, Madras, 1985
PADM, Indian Institute of Management, Calcutta, 1987
M.S., Carnegie Mellon University, 1989

** Beth Ann Novick, New York, NY
Major: Industrial Administration (Operations Research)
Ideal 0,1 Matrices
B.S., Barnard College, 1972
M.Arch., University of Colorado, 1984
M.S., Carnegie Mellon University, 1987

Gordon N. Smith, Dallas, TX
Major: Industrial Administration (Information Systems)
Firms' Adoption and Use of New Information Technologies: A Theoretical Framework and an Empirical Investigation of Ada in the U.S. Defense Industry
B.S., Southern Methodist University, 1980
M.B.A., University of Texas at Austin, 1984
M.S., Carnegie Mellon University, 1986

** Joseph Mary Tama, Uniontown, PA
Major: Industrial Administration (Operations Research)
Polyhedral Aspects of Scheduling Problems with an Application to the TSPTW
B.A., University of Chicago, 1975
M.A., Carnegie Mellon University, 1983
M.S., Carnegie Mellon University, 1985

** Steven Saverio Vicinanza, Arlington, MA
Major: Industrial Administration (Information Systems)
Case-based Software Cost Estimation
A.B., Cornell University, 1979
M.S., State University of New York at Binghamton, 1982
M.S., Carnegie Mellon University, 1989

Jue Xue, Suzhou, China
Major: Industrial Administration (Operations Research)
Fast Algorithms for Vertex Packing and Related Problems
B.S., Institute of Technology, Zhengzhou, 1982
M.S., Institute of Systems Science Academia, 1985
M.S., Carnegie Mellon University, 1987

School of Urban and Public Affairs

Alfred Blumstein
Dean of the School

Doctor of Philosophy

** Ann Helen Haugerud Bostrom, Seattle, WA
Major: Public Policy Analysis
A Mental Models Approach to Exploring Perceptions of Hazardous Processes
B.A., University of Washington, 1983
M.B.A., Western Washington University, 1986

* Glenn D. Cassidy, Carrboro, NC
Major: Public Policy Analysis
Mobility and Public Choice: Three Essays in the Political Economy of Local Governments
S.B., Massachusetts Institute of Technology, 1982
M.P.A., University of Texas at Austin, 1984

* Prodipto Ghosh, New Delhi, India
Major: Public Policy Analysis
Simulating "Greenhouse Gases" Emissions Due to Energy Use by a Computable General Equilibrium Model of a National Economy
B.Tech., Indian Institute of Technology, Delhi, 1968
M.Ph., Carnegie Mellon University, 1989

** Holly Hanson Johnston, Sharon, PA
Major: Public Policy Analysis
Empirical Studies in Management Accounting: Three Essays on the U.S. Airline Industry 1981-1985
B.A., Westminster College, 1980
M.S., Carnegie Mellon University, 1983

** Marilyn Jacobs Quadrel, Pasadena, CA
Major: Social and Decision Sciences and Public Policy Analysis
Understanding Adolescent Risk Perceptions: Qualitative and Quantitative Dimensions
B.A., University of Washington, 1981
M.Ph., Carnegie Mellon University, 1989

* Tsai-Tsu Su, Taipei, Taiwan
Major: Public Policy Analysis
Modelling Budgetary Allocations: Essays on U.S. Federal Budgetary, Tax and Fiscal Policies
B.A., National Chengchi University, 1979
M.A., University of Minnesota, 1983

** Bing Jyun Wang, Taipei, Taiwan
Major: Organization Theory and Information Science
Organizational Labor Markets and Job Networks
B.A., National Chengchi University, 1981
M.B.A., National Chengchi University, 1983

* Kuang-Shih Yeh, Taipei, Taiwan
Major: Organization Theory and Policy Analysis
Models for Internal Labor Markets and Careers with Implications for Human Resource Management in Organizations
B.A., National Taiwan University, 1979
M.P.A., University of Delaware, 1984

*As of August 21, 1990 **As of December 21, 1990

University Honors List

In recognition of their exemplary academic achievements as undergraduates, the following students have been named to the 1991 University Honors List. Graduates are named to the list by the undergraduate colleges on the basis of cumulative grade point average and/or recommendation of the faculty.

Honors List graduates can be identified by the honors medallions on their commencement gowns. Also, their diplomas have been inscribed to give each student a permanent record of this honor.

College of Fine Arts

Kelley Lynn Albert
Jennifer Ann Arscott
Janet Mess Atwater
Keith Vincent Allen Bajura
Elisa Eileen Billey
Lia Ann Calhoun
Christopher Carnell Capizzi
Grant Elliot Carmichael
Sung Sik Cho
Linda Marilyn Christenson
Wayne Clement Chung
Paul T. Clabby
Anna Victoria Clark
Rachel Justine Clark
Allison Lee Culbertson
Victor Thomas Curti
Anthony Pierce Dawson-Ellis
Kristin Kaye Donahue
Alexander Johnson Esrey III
Daniel Burton Fahs
Teresa Elena Fernández-Romero
Scott Jared Foerst
Sally S. Gehl
Pamela Ann Gutteridge
Shoshanah Halpern
Mohamad Adzlee Harun
Patricia Kathleen Hood
Benjamin Joseph Horten
Clare Colley Johnson
Kathryn Dina Johnson
James Frederick Johnston
Leslie Anne Juhng
Philippe Jarrod Kaplan
Christopher Dominick Kasabach
Darrell Charles Kauric
Stacie Valerie Kegelman
Matthew Joseph Keys
Henry S. Kim
Yangsook Kim
Mark Steven Kirschenmann
Sabine Birgit Klein
Melinda Jane Klump
Nicole Jemmie Knepshield
Carol Ann Komlenic
Miles Steven Krivoshia
Jeffrey Michael Kubiatowicz
Ruthanna Marie Kulp
Joseph Edward LaRoche
Heather Chia-Chueh Li
Elena June Maccarone
Donald James MacDonald
Paula Jean Madden
Elizabeth Lynne Mathis
Kathleen Ann Maurer
Andrew Grant Milmoe
Gregory Robert Mottola
Amy Lynn Murray
Joshua Dean Murray
Kara Brigitta Narath
James Hiram Nesbitt Jr.
Martin James Ohlin
Kathleen Palaszynski
Jack Stuart Plotnick
William Ellis Porter II
Derek Stephen Prince
Russell Joel Riben
Ellen Faye Rissinger
Gerald Morris Gelber Rubin
David Abram Rubinstein
Maurice Salata
Roberto Antonio Santos
Jeremy Brooks Savian
Christopher John Shanley
Carissa Leigh Swiss
Tamara Lynn Tappan
Tyrone Taylor
Bret Aaron Torbeck
Laura Ann Vinchesi
Gretchen Sue Vitamvas
Fern Eileen Wingert
William Eric Woodall III
Penelope Cheng Yao

College of Humanities and Social Sciences

Katherine Lynne Ballay
Aaron S. Benjamin
Beth Alexis Christiano
Charles Howard Daniels
Jack Charles Deem Jr.
Brian David Farley
Sheila Anne Farrelly
Darlene Rose Fozard
Michael Angelo Franzini
Dennis Anthony Frey Jr.
Donna Ann Grear
Javier Jose Grillo-Marxuach
Paul Charles Hachten
Eric Goheen Hamilton
Jonathan Rau Hurshman
Ilze Astrida Kelers
Halah Lilly Mansour
Alisa Evangeline Mazzarella
Lisa Marie Melenyzer
Shari Lynn Miller
Mona Mohd Noor
Jeffrey McKenzie Muller
Peter Papagianakis
David Eric Payne
Rebecca Susan Powers
John Scott Quarles
Katherine Fauzia Rashid
Marc Nathan Roston
Matthew Steven Ruben
Joseph John Schwerha IV
Cheryl Mara Shapiro
Jack Silbert
Scott Carmine Smedira
Jonathan Eric Swartz
Ash Vasudeva
John Thomas Waldron III
Jennifer M. Walter

Carnegie Institute of Technology

* Annaliz Abu Bakar
* Charles Edward Batey Jr.
Austin Lawrence Belton
* Jeffrey Kirk Bennett
* Julian Alexander Bentley
Jeffrey Albert Bruce
* Barry Lowell Brumitt
* William Elton Burky
* Brian Cairns

* Yuan Chun Chou
* Michael Joseph Cuccaro
Eric Joseph Deutsch
* Andrea Carol Dusseau
Matthew Paul Fraser
Dustin Lynn Frazier
Julie Ellen Gentili
Michael Barry Gentzler
Douglas Phillip Ghormley
* Christopher Joseph Gilbert
* Martin Geoffrey Greenberg
Nathan Herbert Harding
* John Heinlein IV
James Hom
* Gary Hooyman
* Jane Elizabeth Horner
* Cecil N. Huang
James Sabin Jantos
* Thor Nelson Juneau
Gautham Devendra Kamath
* Kimberly Kristine Keeton
Paul Gregory Keller
* Sanjay Lalji Khant
Paul Donald Krivacek
* Jeffrey Robert Lau
Andy Ang-Ying Lee
* Jason Che-Yuan Lee
* Mark Alan Lemkin
* Charles Ernest Mennell
Steven John Monaco
* Philip Thompson Morgan
* Jad Nehme
* David Ng
* Derek Brooks Noonburg
Michael James Nystrom
* Robert Vincent O'Toole III
Richard Steven Pasetto
David Bentes Pessoa
Gregory Harris Plesur
* George Nicholas Pyros
David James Sitar
* Jarett Mayer Smith
* Mary Ida Smith
Robert Mark Soulchin
* Manish Taneja
Hudson Tiffany
Andrea Lynne Trump
Heather Renee Uljon
John Mahlon Van Scyoc III
Wayne Anthony Wong

Mellon College of Science

Lisa Ann Baughman
John Francis Bukowski
Qun Chen
Colleen Angela Costello
Matthew Eric Davis
Eric Joseph Dean
Charles Richard Esther Jr.
Stephen Brent Houchen
Priscilla Ying Hsue
Caroline Esther Jesurum
Steven Kern Martin
Thomas Ross Nichols
Franklin Howard Pierce III
Theodore Kenneth Ralphs
Michael F. Riccio
Aylin Rizki
Kelli Bouvais Satterwhite
Michael Andrew Silver
Scott Carmine Smedira
James Howard White
Matthew Raymond Whiteley
Todd Andrew Williamson

Industrial Management

Indu Tara Agarwal
Lara Anne Bergfeld
Kevin Robert Bertolini
Sujit Kumar Bhattacharya
Katrina Theresa Chizmar
Aaron Joseph Cornfeld
Matthew J. Dodds
Douglas Walter Donehoo
Kristen Elizabeth Empie
Michael William Gleba
Eric Michael Harris
Susan Jane Hayes
Jeffrey Tod Housenbold
Mark Joseph Imhoff
Michael Todd Juzwiak
Kristina Joyce Kirmse
Mark Christopher McCague
Darryn Alexandra Mintz
Kenneth Blake Nerhood
John Edward Peet
Julie Ann Sexton

* Carnegie Institute of Technology Research Honors

Awards to Graduates

Jed A. Allen, Milwaukee, WI
West Coast Drama Clan Graduate Directing Award

Lisa C. Alter, Rockville, MD
Public Service Career Opportunities Program Award

David J. Atkins, Pittsburgh, PA
Carnegie Mellon Minority Teaching/ Research Fellowship

Keith Vincent Allen Bajura, Pittsburgh, PA
Music Department Merit Scholarship

James D. Balestrieri, Milwaukee, WI
West Coast Drama Clan Graduate Playwriting Award

Jennifer Caryl Bannan, Miami, FL
Adamson Award for Fiction, Honorable Mention

Mahmud M. Barmada, Pittsburgh, PA
Merck Index Award

Ellen L. Barry, Washington, DC
Public Service Career Opportunities Program Award

Deborah L. Reid Bey, Pittsburgh, PA
Carnegie Mellon Minority Teaching/ Research Fellowship

Elisa Eileen Billey, New Stanton, PA
Music Department Merit Scholarship

Brigitte M. Blachere, Bethel Park, PA
Public Service Career Opportunities Program Award

Russell Boyd, Ashland City, TN
Dow Outstanding Junior

Ingrid Bromberg, Milwaukee, WI
Senior Leadership Award

Brian A. Cairns, Donora, PA
American Institute of Chemists Foundation Award For Ability, Character, Scholastic Achievement and Potential

Christopher Carnell Capizzi, Pittsburgh, PA
Music Department Merit Scholarship

Craig Caputo, McKeesport, PA
Jimmy Starr Memorial Scholarship

Sung Cho, Jinhac, Korea
Stuart L. Brown Award

Linda Marilyn Christenson, Pittsburgh, PA
Environmental Poster Competition, First Prize

Desiree A. Cook, New Orleans, LA
Carnegie Mellon Minority Teaching/Research Fellowship; Senior Leadership Award

Adam Todd Cooper, Northbrook, IL
Psi Chi National Honor Society

Christopher B. Cory, Darien, CT
Marine Corps League Special Achievement Award

Colleen Angela Costello, North Canton, OH
ACS Affiliates Award for Seniors; Judith Resnik Award; Senior Leadership Award

Victor T. Curti, Pittsburgh, PA
Robert Burdett Assistantship

Mark M. Daichendt, Chicago, IL
Mark Dennis Karl Outstanding Graduate Teaching Award

Matthew E. Davis, New Kensington, PA
Warner Prize for Seniors

Anthony P. Dawson-Ellis, London, England
West Coast Drama Clan Design Award

Stephen J. DiMartino, Massapequa, NY
Outstanding Undergraduate Research in Biological Sciences

Amanda Melody Dixon, Rochester, PA
Music Department Merit Scholarship

Kristin Kaye Donahue, Detroit, MI
Derdeyn Scholarship; Music Department Merit Scholarship

Darin T. Dunham, Pataskala, OH
Marine Corps Association Honor Graduate; Pittsburgh Naval League Sword

Melissa A. Economy, San Jose, CA
Vira I. Heinz Travel Award

Deana L. Erdner, Pittsburgh, PA
Outstanding Undergraduate Research in Biological Sciences

Linda M. Ernberger, Pittsburgh, PA
Public Service Career Opportunities Program Award

Charles R. Esther Jr., Bethlehem, PA
Outstanding Academic Achievement and Undergraduate Research in Biological Sciences

Deidre R. Ferron, Baltimore, MD
Carnegie Mellon Minority Teaching/ Research Fellowship

Kenneth N. Flack, Pittsburgh, PA
Public Service Career Opportunities Program Award

Scott Foerst, Douglasville, GA
R.T.K.L. Award

Darlene Rose Fozard, Altoona, PA
Adamson Award for Poetry, First Prize; Adamson Award for Non-Fiction for Magazines, First Prize

Matthew P. Fraser, Orinda, CA
AIChE Professional Promise Award

Dennis A. Frey, Canton, OH
National Endowment for the Humanities Younger Scholars Award; Senior Leadership Award

Kathryn L. Gavaghan, Apollo, PA
Public Service Career Opportunities Program Award

Michael B. Gentzler, Brecksville, OH
Geoffrey D. Parfitt Award for Excellence in Research in the Field of Colloids, Polymers and Surfaces

Steven L. George, Pittsburgh, PA
West Coast Drama Clan Graduate Production Award

Marvin N. Germany, Pittsburgh, PA
Carnegie Mellon Minority Teaching/ Research Fellowship

Christopher J. Gilbert, Portland, OR
Lankford Award

John Ginsburg, Albuquerque, NM
Senior Leadership Award

Anil S. Gokahale, Erie, PA
Outstanding Academic Achievement in Biological Sciences

Donna Ann Grear, Trenton, TN
Academy of American Poets, Honorable Mention

David Randolph Gross, Atlanta, GA
Adamson Award for Fiction, Second Prize

Eric Hamilton, Los Angeles, CA
Senior Leadership Award

Nicholas P. Harrigan, Gaithersburg, MD
Veterans of Foreign Wars Award

Craig Hillman, Silver Spring, MD
Senior Leadership Award

Cordelia R. Hollins, Cleveland, MS
Public Service Career Opportunities Program Award

Gary Hooyman, Mahwah, NJ
Carnegie Mellon Alumni Association Sword; Harold A. Thomas Award; Secretary of the Navy Distinguished Graduate Award; Senior Leadership Award

Jeffrey Tod Housenbold, Old Bridge, NJ
Andrew Carnegie Society Presidential Scholar; Senior Leadership Award

Priscilla Y. Hsue, Los Alamos, NM
Andrew Carnegie Society Presidential Scholar; Outstanding Academic Achievement and Undergraduate Research in Biological Sciences

Cecil N. Huang, Pequannock, NJ
Andrew Carnegie Society Presidential Scholar

Jonathan Rau Hurshman, Longjumeau, France
Margaret C. Neff Award; Senior Leadership Award

Naja Hurt, St. Louis, MO
Senior Leadership Award

Joseph M. Ishino, New Plymouth, ID
Public Service Career Opportunities Program Award

Evan Keith Johnston, Pittsburgh, PA
Music Department Merit Scholarship

LeRoy Jones, Philadelphia, PA
Senior Leadership Award

Thor Nelson Juneau, Loveland, CO
Bennett Prize for Academic Achievement in Mechanical Engineering

Christopher Dominick Kasabach, Trenton, NJ
William M. Goldsmith Award for Industrial Design

Kimberly Keeton, Harmony, PA
Senior Leadership Award

James D. Kempf, Garden City, NY
Lloyd Wenninger Award for Stage Design

Matthew Joseph Keys, Latrobe, PA
Music Department Merit Scholarship

Yangsook Kim, Fairfax Station, VA
Thomas S. Muller Packaging Award, First Prize Tie

Mark Steven Kirschenmann, Valparaiso, IN
Music Department Merit Scholarship

Melinda Jane Klump, New York, NY
Music Department Merit Scholarship

Brad Korbesmeyer, St. Louis, MO
Mary Marlin Fisher Playwriting Prize

Janet M. Kowalsky, Niles, IL
William W. Cooper Award

Colleen Ann Krasucki, Muncy, PA
Psi Chi National Honor Society

Ching Yee Teresa Lam, Lancs, United Kingdom
Umesh Gavasaker Prize in Statistics

Edith Laurencin, St. Croix, Virgin Islands
Carnegie Mellon Minority Teaching/
Research Fellowship

Ronald King Lee, Taipei, Taiwan
Academy of American Poets, First Prize

Kimberly Legg, Spotswood, NJ
Senior Leadership Award

Paul Lu, Allentown, PA
Senior Leadership Award

John J. Lucena, Chestnut Ridge, NY
The Merck Fellowship for 1991-92

Charles Ludinsky, Chelmsford, MA
Adamson Award for Poetry, Honorable Mention

Joshua Lynn, Elkins Park, PA
Senior Leadership Award

Elena June Maccarone, Boxford, MA
Thomas S. Muller Packaging Award, First Prize Tie

Paula Jean Madden, Pittsburgh, PA
Environmental Poster Competition, Second Prize

Lillian M. Marshall, Havelock, NC
Paula D. Hughes Scholarship

Elizabeth Lynne Mathis, Bethesda, MD
Andrew Carnegie Society Presidential Scholar;
Senior Leadership Award

Michael J. Matzko, Eagle, CO
Public Service Career Opportunities Program Award

Alisa Evangeline Mazzarella, Dix Hills, NY
Psi Chi National Honor Society

Christi McDowell, Rome, NY
Senior Leadership Award

Mark A. Mittelhauser, Indiana, PA
Thomas J. Watson Fellowship; Senior
Leadership Award

Gregory R. Mottola, New York, NY
Eric Neisser Award

Jill Moore, Kingsport, TN
Senior Leadership Award

Robin McIver Myers, Durham, NC
Psi Chi National Honor Society

Paul Nagy, Woburn, MA
Senior Leadership Award

Kara Brigitta Narath, West Boxford, MA
Design Department Merit Award for Graphic Design;
Environmental Poster Competition, Third Prize

Francesco Lino Nepa, Uniontown, PA
Adamson Award for Fiction, Third Prize

Thomas R. Nichols, Greenville, PA
Lubrizol Foundation Award; Senior Leadership Award

Gen Numaguchi, Rye, NY
Psi Chi National Honor Society

Michael J. Nystrom, Titusville, PA
ASM Outstanding Senior Award

Robert Vincent O'Toole III, Worthington, OH
Forstall Award for Outstanding Senior in
Mechanical Engineering; Senior Leadership Award

Kristina Pasqualin, Aliquippa, PA
Senior Leadership Award

Mark Patrick, Portsmouth, NH
Senior Leadership Award

David Eric Payne, Danville, PA
Psi Chi National Honor Society

Natalie L. Peterson, Cleveland, OH
Public Service Career Opportunities Program Award

Howdy Pierce, Hudson, OH
Senior Leadership Award

Jack S. Plotnick, New York, NY
John Arthur Kennedy Acting Award;
Robert G. McCurdy Scholarship Award

Eileen C. Poe, Newton Square, PA
Public Service Career Opportunities Program Award

Stephen Prince, Los Angeles, CA
Robert C. Huckestein Jr. Memorial Award

Harriet Protos, Tarpon Springs, FL
Senior Leadership Award

Theodore K. Ralphs, Hatfield, PA
American Legion Scholastic Award

Jessie Ramey, Pittsburgh, PA
Senior Leadership Award

Kishore Rao, Pittsburgh, PA
Senior Leadership Award

Jessica Reeves, Brentwood, TN
Senior Leadership Award

Gregory Rhoads, West Palm Beach, FL
Senior Leadership Award

Ellen Faye Rissinger, Robesonia, PA
Music Department Merit Scholarship

Aylin Rizki, Kyrenia, Cyprus
Outstanding Academic Achievement in
Biological Sciences

Carlos J. Rodriguez, Elizabeth, PA
Naval Submarine League Award

Jeffrey Rosenblum, Waterford, CT
Senior Leadership Award

Marc Nathan Roston, Wilmette, IL
Andrew Carnegie Society Presidential Scholar;
National Endowment for the Humanities Younger
Scholars Award

Matthew Ruben, Silver Springs, MA
Senior Leadership Award

Troy T. Rysedorph, Nassau, NY
American Defense Preparedness Association Award;
Reserve Officers Association Award

Mildred L. Santana-Mejias, Toa Baja,
Puerto Rico
Public Service Career Opportunities Program Award;
Sara and Charles J. Mundo Memorial
Scholarship Award

Kelli B. Satterwhite, Mahopac, NY
Outstanding Academic Achievement and
Undergraduate Research in Biological Sciences

Mark E. Schaeffer, Bedford, PA
Daughters of the American Revolution Award

Walter Schearer III, St. Charles, IL
Senior Leadership Award

Amy T. Shalikashvili, Carlisle, PA
AFROTC Leadership Award; AFROTC Superior
Performance Award; CMU President's Award;
Senior Leadership Award

Christopher Shanley, Chicago, IL
John Knox Shear Award

Cheryl Mara Shapiro, Freehold, NJ
Psi Chi National Honor Society

Jack Silbert, Olney, MD
Adamson Award for Poetry, Honorable Mention;
Senior Leadership Award

Michael A. Silver, Dover, PA
American Institute of Chemists Award; Outstanding
Academic Achievement and Undergraduate Research
in Biological Sciences

Colleen Sims, Export, PA
Senior Leadership Award

Susan E. Sparks, Wauconda, IL
Outstanding Undergraduate Research in
Biological Sciences; Senior Leadership Award

Antine E. Stenbit, Oakton, VA
Outstanding Undergraduate Research in
Biological Sciences

Peter J. Stern, New York, NY
Public Service Career Opportunities Program Award

Tom Stokes, Hyde Park, NY
West Coast Drama Clan Graduate Design Award

Gregory R. Stuhr, Eden, NY
West Coast Drama Clan Acting Award

Tyrone Taylor, Montclair, NJ
Princess Grace Foundation Scholarship; West Coast
Drama Clan Music Theatre Award; Senior
Leadership Award

Kevin Michael Thomas, South Windsor, CT
Adamson Award for Poetry, Second Prize

Floyd N. Tyler Jr., Memphis, TN
Public Service Career Opportunities Program Award

Charles A. Tyrrell Jr., Manlius, NY
Public Service Career Opportunities Program Award

Kim C. van der Veen, Pittsburgh, PA
Public Service Career Opportunities Program Award;
William W. Cooper Award

Ash Vasudeva, Bowling Green, OH
Senior Leadership Award

Laura Ann Vinchesi, Rochester, NY
Andrew Carnegie Society Presidential Scholar;
William M. Goldsmith Award for Graphic Design

John Edward Vresilovic Jr., Coral, PA
Adamson Award for Fiction, First Prize

Steven Walters, Cleveland, OH
Psi Chi National Honor Society

Taras R. White, New Orleans, LA
Public Service Career Opportunities Program Award

Matthew R. Whiteley, Whipple, OH
AFROTC Superior Performance Award;
CMU Provost Award

Anthony Mark Worthington, Spokane, WA
George Kimberly Award in Scene Design

Penelope Cheng Yao, Flushing, NY
Design Department Merit Award for Industrial Design

Terence Yarde, Elmsford, NY
Senior Leadership Award

Conrad Zapanta, Harrisonburg, VA
Senior Leadership Award

Commencement Notes

During the Ceremony

First Aid: A station is located in Room 13 on the lower level of Skibo. Use the Forbes Avenue entrance.

Indoor viewing: The ceremony is broadcast on closed-circuit television in the Kiltie Cafe of Skibo.

Programs: Additional copies of the commencement program are available in The Service Tent on the Cut.

Refreshments: Available to guests at The Service Tent on the Cut.

Officer Commissions

U.S. Air Force
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U.S. Marine Corps
Second Lieutenant Daniel Nelson Bergad
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Second Lieutenant Darin Thomas Dunham

U.S. Navy
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Ensign Gary Hooyman
Ensign Abigail Kathryn Ochberg
Ensign Samuel Joseph Robb
Ensign Carlos Jose Rodriguez
Ensign Troy Thomas Rysedorph
Ensign Mark Edward Schaeffer
Ensign John Frans Stuhlfire

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Faculty Marshal
Barbara Anderson

Marshals
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Steve Au
Stanley Baiman
Richard B. Barnhart
Ilker Baybars
William Brown
Albert Caretto
Stanley Charap
Alan Cramb
George Duncan
Richard Edelstein
Harry Faulk
Linda Flower
Jim Hoburg
Paul J. Karol
Claudia A. Kirkpatrick
Kenneth Kotofsky
Tom Kurfess
Patrick Larkey
Richard Luthy
Barbara MacKenzie-Wood
Sue McNeil
Michael Murphy
Juan Schaffer
Marvin Sirbu
Douglas Tygar
Ned S. Vander Ven
Hugh Young

Academic Symbolism

In the British tradition, a procession for a ceremony such as this commencement may be led by an official bearing a mace or staff, or supervised by a marshal carrying a baton or other badge of office. Carnegie Mellon has provided the faculty marshal (officially responsible for the entire ceremony) with a silver mace. The Carnegie mace is surmounted with a thistle, a flowering plant, symbolic of Andrew Carnegie's Scottish origin and the university's many Scottish traditions. The seven silver rods in the handle represent the seven colleges and divisions in existence at the time the mace was designed. The three silver rings around the handle of the mace, first introduced at the 1960 commencement, represent undergraduate teaching, graduate teaching and scholarly research.

Other components of this ceremony include the garb of the participating faculty and students, a colorful relic of medieval scholastic tradition. During the Middle Ages, education was a function of religious organizations. The long gown evolved from the monk's habit, and the hood from the cowl that monks wore over their heads. The hoods worn by Carnegie Mellon master's and doctor's degree candidates are decorated with colored velvet bands indicating the disciplines in which they earned their degree. Carnegie Mellon hoods are also dressed with the Carnegie family tartan in blue, red, green and yellow, created at Andrew Carnegie's request and manufactured in Scotland.

Candidates for a doctor's degree of philosophy wear a blue velvet band on their hoods, and candidates for a doctor's degree of arts wear a white velvet band on theirs.

The various styles of gowns and hoods adopted by American universities were standardized by agreement in 1894. Because many Carnegie Mellon faculty members hold degrees from European universities or from older American schools there is great variety in both the color and shape of gowns and caps.

Some legends say the mortar-board cap developed from the skull caps worn by churchmen officiating at religious services; others say the cap resembles a scholar's book and came from Oxford University.

The tassel, worn on the square of the mortarboard developed from the 15th century when caps and hats came into fashion. One style of hat bore a tuft in the center, which evolved into the tassel. Students receiving a bachelor's or master's degree have a red tassel, and those receiving a doctor's degree have a gold tassel. The tassels hold an emblem stating the year of graduation.

Did You Know...

- Carnegie Mellon University ranked 22nd in "The Top 25 National Universities" by U.S. News & World Report in October 1990. The Graduate School of Industrial Administration was ranked ninth in Business Week's "Best B-School Ranking," also in October.
- A groundbreaking ceremony held this commencement weekend began the $14.6 million addition to the Graduate School of Industrial Administration. The 60,000-square-foot addition, which will house auditoriums, computer classrooms and faculty offices, will run along Tech Street behind the College of Fine Arts.
- The five-year, $200 million Campaign for Carnegie Mellon, scheduled to conclude June 30, has been the most successful fundraising drive in the university's history. As of May 1991, the Campaign has raised $225 million in cash and pledges and $61 million in contributions of equipment and other gifts in-kind.
- Carnegie Mellon will open its first study abroad center in Tours, France, two hours southwest of Paris, in fall 1991. The center is part of President Robert Mehrabian's Education Abroad Program which will increase international opportunities for students. All courses at Tours will be taught in French and students may study history, fine arts, business, engineering, and social and physical sciences, as well as the French language.
- The Carnegie Mellon Tartans trounced the University of Chicago Maroons 41-0 in the first football game played in the new Gesling Stadium on Sept. 15, 1990. The Tartans were undefeated in the regular season, but lost in the NCAA Division III playoff to Lycoming College, 17-7.
- Last fall stonecarvers set up shop in front of the College of Fine Arts to complete the building's niches, designed to represent the five periods of architecture: Gothic, Greek, Roman, Renaissance and Moorish. The project was started over 75 years ago, but only the Renaissance niche came close to completion. The late Verner S. Purnell (A'26) donated $1 million to the project.
- Among the winners at the 42nd annual Emmy Awards were Carnegie Mellon alumni Ted Danson (A'72) for best actor in a comedy series for "Cheers" and Steven Bochco (A'66), whose "L.A. Law" won best drama. In the film world, Laura San Giacomo (A'84) appeared in "Quigley Down Under" with Tom Selleck and "Pretty Woman," and Holly Hunter (A'80) starred in "Once Around."
- The Cut, where commencement takes place, was originally a great gulch through the campus. The ravine, deeper than the tennis courts area, was filled in over the years. In the earliest earth-moving efforts, the school cut down a 43-foot hill to place the College of Fine Arts and a 56-foot hill to provide access to Forbes Avenue at Morewood. The dirt was dumped into the ravine. The name "the Cut" has survived the disappearance of the gulch.
- Carnegie Mellon was originally called The Carnegie Technical Schools. It became Carnegie Institute of Technology in 1912. In 1967, it merged with Mellon Institute to form Carnegie Mellon University.
- Since 1908, more than 56,200 men and women have graduated from the school.
- Andrew Carnegie, who founded the Carnegie Technical Schools in 1900, only attended four years of school in his lifetime. His idea of education stressed the technical, not the classical, the practical, not liberal arts. He was never greatly interested in Ivy League schools but wanted instead to help institutions that served the children of the middle and lower classes.
- Andrew Carnegie came to campus on five occasions between 1907 and 1914. The first building he visited was Margaret Morrison Carnegie Hall, named for his mother.
- The Senior Fence on the Cut was erected in 1923 for seniors to sit and watch the world go by. Three administrations were unable to remove it. It continues to be a jealously guarded billboard for campus activities and "unsanctioned announcements and editorial comments on campus life."
- The Kiltie Band goes back to 1908 when seven students got together and formed a band to make "some sort of noise at the football games."
- "Buggy" began in 1920 and highlights Spring Carnival each year. The student-designed vehicles hold a driver who steers, and they are pushed over an almost mile-long course by competing fraternities, sororities and other student organizations.
- The Carnegie Tech football squad played in the 1939 Sugar Bowl, losing to Texas Christian University, 15-7.
- The first computer on the Carnegie Mellon campus was housed in the basement of the Graduate School of Industrial Administration in 1956.
- Alumnus Edgar D. Mitchell (IM'52), the sixth astronaut to walk on the moon, carried a replica of the Carnegie Mellon flag with him during his lunar visit in 1971. The late Judith A. Resnik (E'70) was one of the original group of six women astronauts selected by NASA. She flew on the maiden voyage of the space shuttle Discovery in August 1984 and died aboard the Challenger spaceship in January 1986.

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